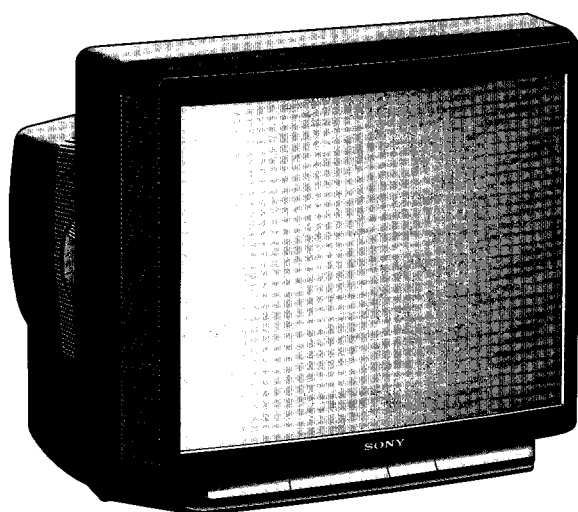


SERVICE MANUAL

BE-3D CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-25X1A	RM-839	Italian	SCC-K05G-A	KV-25X1K	RM-839	OIRT	SCC-K08N-A
KV-25X1B	RM-839	French	SCC-K01G-A	KV-25X1L	RM-839	Irish	SCC-J21A-A
KV-25X1D	RM-839	AEP	SCC-K07G-A	KV-25X1R	RM-839	OIRT	SCC-K08P-A
KV-25X1E	RM-839	Spanish	SCC-K06G-A	KV-25X1U	RM-839	UK	SCC-K04E-A



TRINITRON® COLOR TV
SONY®

ITEM	MODEL	Television System	Channel Coverage	Colour System
Italian	B/G/H	VHF: E2-E12, S1-S20, A-H, H1, H2 UHF: E21-E69		PAL NTSC3.58/4.43 (video input only)
French	B/G/H, D/K, L, I	L SECAM VHF: F2-F10 UHF: F21-F69 TV CABLE TV (1) VHF: B-Q UHF: S21-S44 PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 PAL I UHF: B21-B69 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, S42-S46		PAL, SECAM NTSC3.58/4.43 (video input only)
AEP	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: S1-S20 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, S42-S46		PAL, SECAM NTSC3.58/4.43 (video input only)
Spanish	B/G/H, D/K	PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, S42-S46		PAL, SECAM NTSC3.58/4.43 (video input only)
OIRT	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, S42-S46		PAL, SECAM NTSC3.58/4.43 (video input only)
Irish UK	I	UHF: U21-U69		PAL NTSC3.58/4.43 (video input only)

MODEL	25X1A	25X1B	25X1D	25X1E	25X1K 25X1R	25X1L 25X1U
Power Consumption	74W	86W	86W	86W	86W	134W

SPECIFICATIONS

Picture Tube Super Trinitron
Approx. 63 cm (25 inches)
(Approx. 59 cm picture measured diagonally)
110° -deflection

Rear/Front Terminals

[REAR]

- ➡ 1 21-pin Euro connector (CENELEC standard)
 - Inputs for audio / video signals
 - Inputs for RGB
 - Outputs for TV audio and video signals
- ➡ 2/➡ 2, 21-pin Euro connector (CENELEC standard)
 - Inputs for audio / video signals
 - Inputs for S video
 - Outputs for TV audio and video signals (selectable)

[FRONT]

- ➡ 3, Video input - phono jack
- ➡ 3, Audio inputs - phono jacks
- ➡ 3, S video input - 4 pin DIN
- 🎧 Stereo minijack - headphone jack

Sound output

- Left/Right 2x10W (RMS)
2x20W (music power)
- Dimensions 593x502x512 mm approx.
- Weight Approx. 33.0 kg
- Supplied accessories RM-839 Remote Commander (1)
Batteries R6 (2)
- Other features Fastext, TOPTXT


[RM-839]

Remote control system	Infrared control
Power requirements	3V dc (2 batteries) R6 (size AA)
Dimensions	Approx. 210x45x24 mm (w/h/d)
Weight	Approx. 90g (Not including battery)

Design and specifications are subject to change without notice.

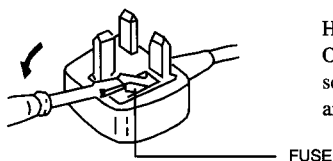
Model name Item	KV-25X1A	KV-25X1B	KV-25X1D	KV-25X1E	KV-25X1K KV-25X1R	KV-25X1L KV-25X1U
PIP	OFF	OFF	OFF	OFF	OFF	OFF
MPIP	OFF	OFF	OFF	OFF	OFF	OFF
Rotation Coil	OFF	OFF	OFF	OFF	OFF	OFF
VM Set	OFF	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON
TXT	ON	ON	ON	ON	ON	ON
FLOF	ON	ON	ON	ON	ON	ON
TOP	ON	ON	ON	ON	ON	ON
Norm B/G/H	ON	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	ON
Norm D/K	OFF	ON	ON	ON	ON	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF
Language Preset	Italian	French	German	Spanish	OIRT	English

WARNING (KV-25X1L/25X1U only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the  mark.

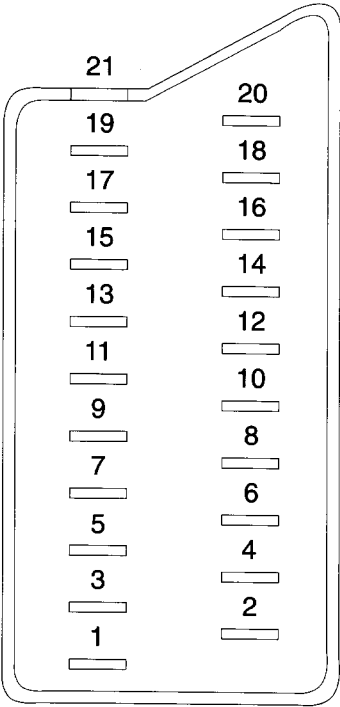
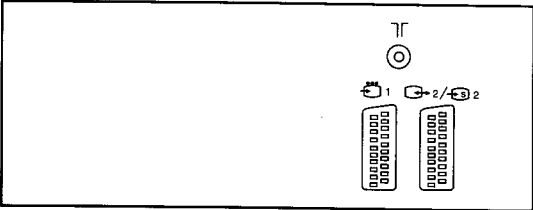
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME. IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.

When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.



How to replace the fuse.
Open the fuse compartment with the screwdriver blade and replace the fuse.

21 pin connector (→ 1, ↔ 2 / → S 2)



Pin No.	1	2	4	Signal	Signal Level
1				Audio output B (Right)	Standard level : 0.5V rms Output impedance : Less than 1k ohms*
2				Audio input B (Right)	Standard level : 0.5V rms Output impedance : More than 10k ohms*
3				Audio output A (Left)	Standard level : 0.5V rms Output impedance : Less than 1k ohm*
4				Ground (Audio)	
5				Ground (Blue)	
6				Audio input A (Left)	Standard level : 0.5V rms Output impedance : Less than 10k ohm*
7				Blue input	0.7 ± 3dB, 75 ohms, positive
8				Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More10k ohms Input capacitance : Less than 2nF
9				Ground (Green)	
10				Open	
11				Green	
12				Open	
13				Ground (Red)	
14				Ground (Blanking)	
15				Red input	0.7 ± 3dB, 75 ohms, positive
				(S signal) chroma input	0.7 ± 3dB, 75 ohms, positive
16				Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75 ohms
17				Ground (Video output)	
18				Ground (Video input)	
19				Video output	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
20				Video input	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
				Video input Y (S signal)	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
21				Common ground (plug, shield)	

○ Connected ● Not Connected (Open) * at 20Hz - 20kHz

Pin No.	Signal	Signal Level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm, positive Sync. 0.3V -3 + 10dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive Sync.

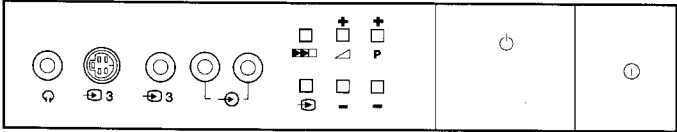


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CAUTION


SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.


ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

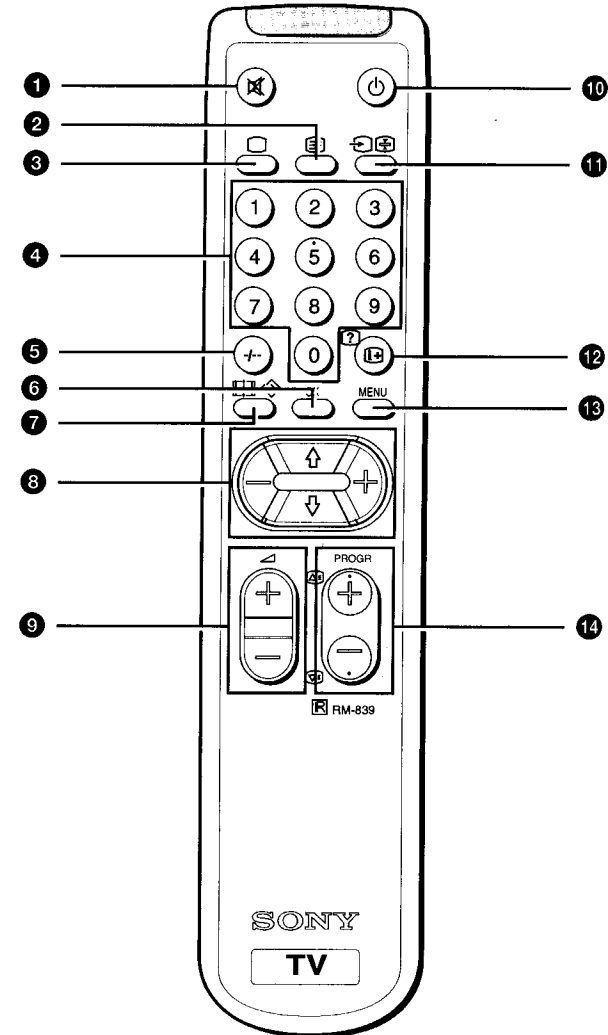
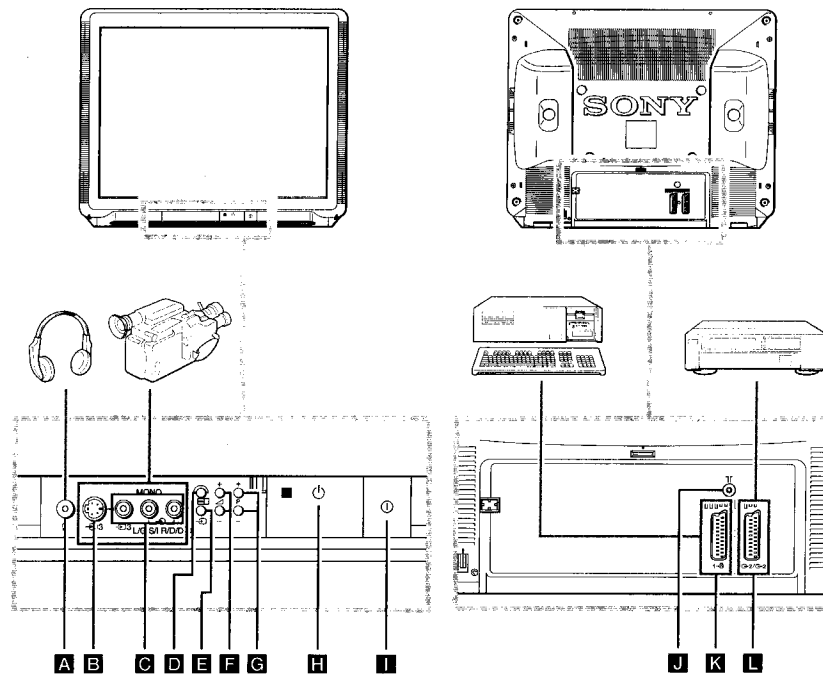
AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES VUES EXPLODÉES ET LES LISTES DE PIÉCES SONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL














The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.















Overview

This section briefly describes the controls and the buttons on the TV set and on the Remote Commander. Please open the flap at the front of the instruction manual for illustrations of the TV set and the Remote Commander. Letters in boxes refer to the buttons on the TV set, numbers in circles to the buttons on the Remote Commander. For more information, refer to the page numbers given next to each description.

TV buttons and Terminals



Reference and Symbol	Name	Refer to Page
Front of the set		
A 	Headphones jack	4
B  3	S video input jack	29
C  3,  3	Audio/video input jacks	29
D 	Automatic Preset button	11
E 	Input mode button	13
F  +/-	Volume control	12
G P +/-	Programme button	12
H 	Standby mode indicator	12
I 	Main power switch	12
Rear of the set		
J 	Aerial socket	10
K  1	21 pin Euro connector	29
L  2 /  2	21 pin Euro connector	29

Remote Commander Operation

Reference and Symbol	Name	Refer to Page
1 	Muting on/off button	12
2 	Teletext button	13
3 	TV power on/TV mode button	12, 13
4 1, 2, ..., 9, 0	Number buttons	12
5 - / - -	Double digit entering button	12
6 OK	OK (Confirmation) button	14
7  / 	Screen format button Teletext: Favourite pages button	12, 28
8 	Menu control	14
9  +/-	Volume control button	12
10 	Standby button	12
11  / 	Input mode button Teletext: Freezing the subpage	13, 27
12  / 	On-screen display button Teletext: reveal button	12, 27
13 MENU	Menu on/off button	14
14 PROGR +/-	Programme buttons Teletext: Page up/page down buttons	12, 13

Step 1

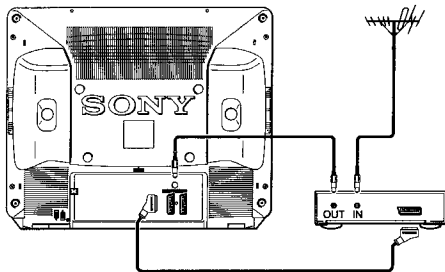
Connecting the Aerial
(If you connect a VCR, skip to step 2)

Insert the aerial plug tightly into the aerial socket  . Use a good-quality aerial cable (not supplied), corresponding to the relevant regulations.

Step 2

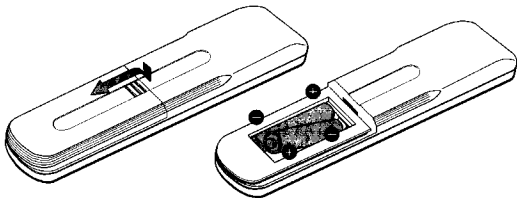
Connecting a VCR

We recommend that you tune in the VCR signal to programme number “0”. For details, see “Presetting Channels Manually” on page 16.
See “Connecting Optional Equipment” on page 29 for more information.



Step 3

Inserting the Batteries Into the Remote Commander







Respect your environment! Dispose of used batteries in an environmentally friendly way.

Step 4

Presetting Channels Automatically

With this function, the TV can automatically search and store up to 100 different channel numbers.

If you prefer manual presetting, refer to “Presetting Channels Manually” on page 16.

- 1 Plug into mains.
Press the power switch   on the TV set.
- 2 Press and hold the button   on the TV set until the automatic menu is displayed and the search starts.

After all available channels are stored, the normal TV picture is shown.

Note: Channels are automatically stored as follows;

KV-25X1U/29X1U	KV-25X1L/29X1L
Programme 1 BBC1	Programme 1 RTE1
Programme 2 BBC2	Programme 2 RTE2
Programme 3 ITV	Programme 3 BBC1
Programme 4 CH4 or S4C	Programme 4 BBC2
	Programme 5 ITV
	Programme 6 CH4 or S4C

TV Operation

This section explains functions used whilst watching TV. Most operations are carried out using the remote commander (numbers in circles). All basic functions are also available on the TV set (letters in boxes). Open the flap at the front of the Instruction Manual to see the illustrations of the Remote Commander and the TV set.

TV Operation

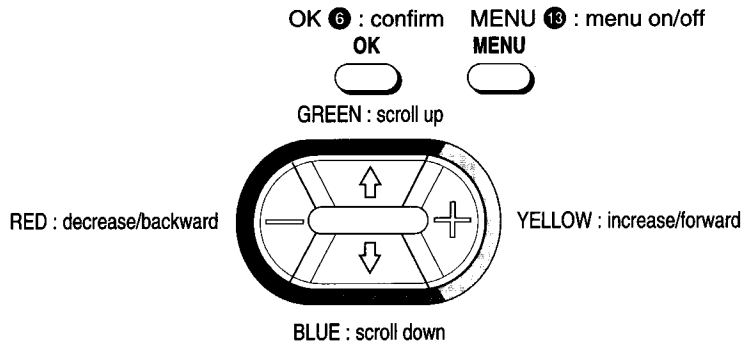
To	Press
Switch on	① I on TV
Switch off temporarily	⏻ ⑩ TV is now in standby mode and ⏻ H indicator on TV lights up.
Switch on from standby mode	□ ③, PROGR +/- ⑭ G or any number button ④.
Switch off completely	① I on TV To save energy, switch off your TV completely when TV is not in use.
Select programmes	PROGR +/- ⑭ G or number buttons ④ For double digit number, press -/- ⑤ then the number e.g. For 23, press -/- ⑤ then 2 and 3.
Display on screen indications	ⓘ ⑫. Press again to make the indications disappear.
Adjust the volume	△ + or - ⑨ F
Mute the sound	⊗ ①. Press again to restore the sound.
View programmes in 16:9 mode	⊞ ⑦. Press again to return to 4:3 mode.

TV Operation (continued)

To	Press
View video input picture (see page 30 for detailed information)	↺ ⑪ E repeatedly until the desired video input appears. Press □ ③ to restore the TV picture.
View teletext (see page 27 for detailed information)	
Switch on	☰ ②
Select a page	three number buttons ④ or ⏮ ⑭ (for next page) or ⏭ ⑭ (for previous page).
Use fastext	Blue, Green, Red or Yellow ⑧.
Switch off	□ ③

Adjusting and Setting the TV Using the Menu

You can adjust and set various functions on the TV using the following remote commander buttons:



Choosing the Menu Language

This function enables you to change the language of the menu screens.

1 Press power switch 1 on the TV. If the standby indicator H on the TV is lit, press 3 or a number button 4 on the Remote Commander.

2 Press the MENU button 13 on the remote commander.



3 Press blue or green 8 to select the language you want then press yellow 9.

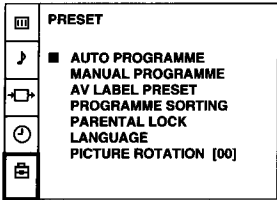
4 Press the MENU button 13 to restore the normal TV picture.

Presetting Channels Automatically

You may have already preset the channels automatically by using the method shown on page 11. You can also preset channels automatically by using the remote commander as follows:

1 Press the MENU button 13.

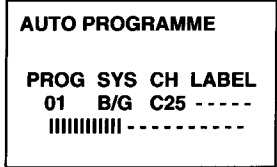
2 Press blue or green 8 to select the symbol on the menu screen then press yellow 9.



3 Press blue or green 8 to select 'AUTO PROGRAMME'.

4 Press and hold yellow 9 until the automatic menu is displayed and the search starts.

After all available channels have been preset, the normal TV picture is shown.

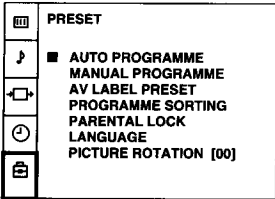


Presetting Channels Manually

This function enables you to preset channels one by one to different programme numbers. This is also convenient for allocating programme numbers to various video input sources.

1 Press the MENU button 13.

2 Press blue or green 8 to select the symbol 14 on the menu screen then press yellow 9.



3 Press blue or green 8 to select 'MANUAL PROGRAMME' then press yellow 9.

MANUAL PROGRAMME PRESET					
PROG	SYS	CHAN	LABEL	AFT	
1	B/G	C 1	----	ON	
2	B/G	C 4	----	ON	
3	B/G	C12	----	ON	
4	B/G	C22	----	ON	
5	B/G	C33	----	ON	
6	B/G	C41	----	ON	
7	B/G	C17	----	ON	
8	B/G	C32	----	ON	

4 Press blue or green 8 to select on which programme number you want to preset a channel then press yellow 9.

5 Press blue or green 8 to select the TV broadcast system 'T' or a video input source (AV1,AV2 ...) then press yellow 9.

6 (This step 6 is only for KV-25X1L/29X1L)
Press blue or green 8 to select 'C' (for terrestrial channels) or 'S' (for cable channels) then press yellow 9.

7 Select the first number digit of 'CHAN' then the second number digit of 'CHAN' with the number buttons 4 on the remote commander
or
Press blue or green 8 to search for the next available channel number.

8 If you want to store the channel number, go to step 9. If not, select a new channel number using the number buttons 4 on the remote commander or press blue or green 8 to resume the search.

9 Press OK 6.

10 Repeat steps 4 to 9 to preset other channels.

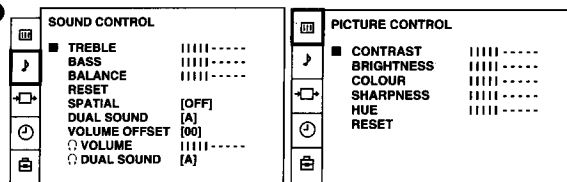
11 Press the MENU button 13 to restore the normal TV picture.

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste.

1 Press the MENU button **13**.

2 Press blue or green **8** to select **III** for picture control or **II** for sound control then press yellow **8**.



3 Press blue or green **8** to select the desired item then press yellow **8**.

4 Press red or yellow **8** to alter the item then press OK **6**.
For the effect of each control, see the following tables.

5 Repeat steps 3 and 4 to adjust the other items.

6 Press the MENU button **13** to restore the normal TV picture.

PICTURE CONTROL Effect

Contrast	Lower — — Higher
Brightness	Darker — — Brighter
Colour	Less — — More
Sharpness	Softer — — Sharper
Hue	Greenish — — Reddish (NTSC signals only)
Reset	Resets picture to the factory preset levels.

Adjusting the Picture and Sound (continued)


SOUND CONTROL Effect

Treble	Less — — More
Bass	Less — — More
Balance	Left — — Right
Reset	Resets sound to the factory preset levels.
Spatial	Acoustic sound effect.
Dual Sound	A: Left channel —> B: Right channel —> stereo —> mono
Volume Offset	Presets the volume level for individual programmes. -12 — 0 — +12
Volume	Adjusts the headphone volume.
Dual Sound	Presets the headphone channels. A: Left channel —> B: Right channel —> stereo —> mono

Manual Fine-Tuning

Normally, the automatic fine-tuning (AFT) function is operating. If the picture is distorted however, you can manually fine-tune the TV to obtain a better picture reception.

1 Press the MENU button **13**.

2 Press blue or green **8** to select the symbol  on the menu screen then press yellow **8**.

3 Press blue or green **8** to select 'MANUAL PROGRAMME' then press yellow **8**.

MANUAL PROGRAMME PRESET					
PROG	SYS	CHAN	LABEL	AFT	
1	B/G	C 1	----	ON	
2	B/G	C 4	----	ON	
3	B/G	C12	----	ON	
■ 4	B/G	C22	----	ON	
5	B/G	C33	----	ON	
6	B/G	C41	----	ON	
7	B/G	C17	----	ON	
8	B/G	C32	----	ON	

4 Press blue or green **8** to select the programme number which corresponds to the channel you want to manually fine-tune.

5 Press yellow **8** repeatedly until the AFT position changes colour.

6 Press blue or green **8** to change the frequency of the channel from -15 to +15.

7 Press OK **6**.


8 Repeat steps 4 to 7 to fine-tune other channels.

9 Press the MENU button **13** to restore the normal TV picture.






Sorting Programme Positions

This function enables you to move channels to different programme numbers.

1 Press the MENU button **13**.

2 Press blue or green **8** to select the symbol  on the menu screen then press yellow **8**.

3 Press blue or green **8** to select 'PROGRAMME SORTING' then press yellow **8**.

PRESET	
	■ AUTO PROGRAMME
	MANUAL PROGRAMME
	AV LABEL PRESET
	PROGRAMME SORTING
	PARENTAL LOCK
	LANGUAGE
	PICTURE ROTATION [00]

4 Press blue or green **8** to select the channel you want to move to another programme number then press yellow **8**.

PROGRAMME SORTING			
PROG	SYS	CHAN	LABEL
■ 1	B/G	C23	BBC - 1
2	B/G	C26	RTL --
3	B/G	C29	VHS - 1
4	B/G	C31	ZDF --
5	B/G	C44	ITV --
6	B/G	C14	SKY --
7	B/G	C15	SAT - 1
8	B/G	C16	BBC - 2

5 Press blue or green **8** to select the programme number to which you want to move the channel selected in step 4 then press yellow **8**.


6 Repeat steps 4 to 5 if you wish to move other channels to different programme numbers.

7 Press the MENU button **13** to restore the normal TV picture.

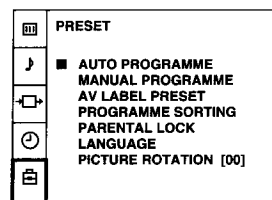
Using Parental Lock


This function enables you to prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

1 Press the MENU button **13**.

2 Press blue or green **8** to select the symbol  on the menu screen then press yellow **8**.

3 Press blue or green **8** to select 'PARENTAL LOCK' then press yellow **8**.



4 Press blue or green **8** to select the channel you want to block then press yellow **8**.
The symbol  appears before the programme number to indicate that this channel is now blocked.

PARENTAL LOCK			
PROG	SYS	CHAN	LABEL
<input checked="" type="checkbox"/> 1	B/G	C23	BBC - 1
<input checked="" type="checkbox"/> 2	B/G	C26	RTL - -
<input checked="" type="checkbox"/> 3	B/G	C29	VHS - 1
<input checked="" type="checkbox"/> 4	B/G	C31	ZDF - -
<input checked="" type="checkbox"/> 5	B/G	C44	ITV - -
<input checked="" type="checkbox"/> 6	B/G	C14	SKY - -
<input checked="" type="checkbox"/> 7	B/G	C15	SAT - 1
<input checked="" type="checkbox"/> 8	B/G	C16	BBC - 2

5 Repeat step 4 if you wish to block other channels.


6 Press the MENU button **13** to restore the normal TV picture.

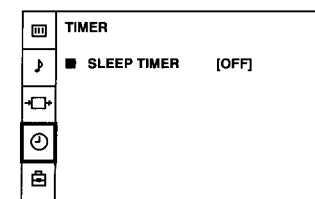
Note: To unblock, press yellow **8** after selecting the channel to unblock in the 'PARENTAL LOCK' menu.

Using the Sleep Timer

This function enables you to select a time period after which the TV automatically switches into standby mode.

1 Press the MENU button **13**.

2 Press blue or green **8** to select the symbol  on the menu screen then press yellow **8**.



3 Press yellow **8**.

4 Press red or yellow **8** to set time delay and press OK **6**.

OFF 0:30 1:00 1:30 3:30 4:00


One minute before the TV switches into standby mode, a message is displayed on the screen.

5 Press the MENU button **13** to restore the normal TV picture.








Skiping Programme Positions

This function enables you to skip unused channels when selecting programme numbers with the PROG+/- buttons. However, you can still watch the skipped channel(s) by using the number buttons.

1 Press the MENU button **13**.

2 Press blue or green **8** to select the symbol  on the menu screen then press yellow **8**.

3 Press blue or green **8** to select 'MANUAL PROGRAMME' then press yellow **8**.

	PRESET
	AUTO PROGRAMME
	MANUAL PROGRAMME
	AV LABEL PRESET
	PROGRAMME SORTING
	PARENTAL LOCK
	LANGUAGE
	PICTURE ROTATION [00]

4 Press blue or green **8** to select the channel you want to skip then press yellow **8**.

5 Press blue or green **8** until '---' appears in the 'SYS' position.

MANUAL PROGRAMME PRESET				
PROG	SYS	CHAN	LABEL	AFT
1	B/G	C 1	----	ON
2	B/G	C 4	----	ON
3	B/G	C12	----	ON
4	---	C22	----	ON
5	B/G	C33	----	ON
6	B/G	C41	----	ON
7	B/G	C17	----	ON
8	B/G	C32	----	ON

6 Press OK **6**.


7 Repeat steps 4 to 6 to skip other channels.

8 Press the MENU button **13** to restore the normal TV picture.








Captioning a Station Name

Names for channels are usually automatically taken from teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers).

1 Press the MENU button **13**.

2 Press blue or green **8** to select the symbol  on the menu screen then press yellow **8**.

3 Press blue or green **8** to select 'MANUAL PROGRAMME' then press yellow **8**.

	PRESET
	AUTO PROGRAMME
	MANUAL PROGRAMME
	AV LABEL PRESET
	PROGRAMME SORTING
	PARENTAL LOCK
	LANGUAGE
	PICTURE ROTATION [00]

4 Press blue or green **8** to select the channel you wish to caption then press yellow **8** repeatedly until the first element of the 'LABEL' position is highlighted.

5 Press **8** blue or green to select a letter or number and press yellow **8** (select '-' for a blank). Select other characters in the same way.

MANUAL PROGRAMME PRESET				
PROG	SYS	CHAN	LABEL	AFT
1	B/G	C 1	----	ON
2	B/G	C 4	----	ON
3	B/G	C12	----	ON
4	B/G	C22	-	ON
5	B/G	C33	----	ON
6	B/G	C41	----	ON
7	B/G	C17	----	ON
8	B/G	C32	----	ON



6 After selecting all the characters, press OK **6**.

7 Repeat steps 4 to 6 to caption names for other channels.






8 Press the MENU button **13** to restore the normal TV screen.

Most TV channels broadcast information via teletext. The index page of the broadcaster (usually page 100) gives you information on how to use the service.
Make sure you use a TV channel with a strong signal, otherwise teletext errors may occur.

Switching Teletext On and Off

- 1 Select the channel which carries the teletext service you wish to view.
- 2 Press  2 to display teletext.
If no teletext signal is broadcast, the indication P100 is displayed on a black screen.
- 3 Input three digits for the page number using the number buttons 4.
The page counter searches for the page and after some seconds the page is displayed.
- 4 Press  3 to return to the normal TV picture.


Using Other Teletext Functions

To	Press
Access the next or preceding teletext page	 14 for the next page or  14 for the preceding page
Mix the mode	 2 when in teletext mode. Now the teletext page is superimposed on the TV programme. Press again to return to the normal teletext display.
Freeze a teletext subpage	 11. Press once again to cancel.
Reveal hidden information (eg: answers to a quiz)	 12. Press once again to cancel.

Favourite page system


You can store up to four of your favourite teletext pages per Teletext service. In this way you have quick access to the pages you frequently use.


Storing pages

- 1 Use the number buttons 4 to select the page you would like to store.
- 2 Press  7 twice.
The colour prompts at the bottom of the screen flash.
- 3 Press red, green, blue or yellow to store the selected page.
The page is now stored on this colour.

Repeat steps 1 to 3 for the other 3 pages.

Displaying the Favourite Pages

- 1 Press  7.
- 2 Press blue, green, red or yellow to select the desired page.

Make sure you press  7, otherwise the normal Fastext facility operates.

Using Fastext

(only available, if the TV station broadcasts Fastext signals)

With Fastext you can access pages with one key stroke . When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue colours on the Remote Commander.

Press the Remote Commander colour button that corresponds to the colour-coded menu. The selected page is displayed after some seconds.

Connecting Optional Equipment

There is a wide range of optional equipment you can connect to your TV. Refer to the illustrations on the front flap page of this manual.

Symbol	Acceptable input signals	Available output signals
→ 3, → 3 B → 3 C	Normal audio/video and S video	No output
→ 1 K	Normal audio/video and RGB	Audio/video from TV tuner
→ 2/→ 2 L	Normal audio/video and S video	Audio/video from selected source

About S video input

Video signals may be separated into Y (luminance) and C (chrominance) signals. Separating the two signals prevents interference and thus improves the picture quality.

Notes on connections:

If the picture or sound is distorted, move the VCR away from the TV.

When connecting a monaural VCR, connect only the white jack to both the TV and VCR.

Selecting Input and Output Signals

This section explains how to select the output signal from → 2/→ 2 **L** and how to select and view the input. You can use direct access buttons → 1 **E** to select the input or the menu system to select input and output.

Selecting With Direct Access Buttons

Press → 1 **E** repeatedly.

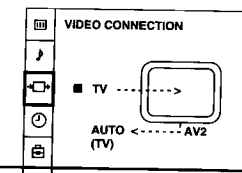
Press □ **B** to restore the normal TV picture.

Symbol on the screen	Input Signal
→ 1 → K	Audio/video through Euro AV connector K
→ 2 → L	RGB through Euro AV connector K
→ 2 → L	Audio/video through Euro AV connector L
→ 3 → C	S video through Euro AV connector L
→ 3 → C	Audio/video through the phono jacks C
→ 3 → B	S video through the phono jacks B

Selecting With the Video Connection Menu

1 Press the MENU button **13**.

2 Press blue or green **8** to select →□→ for "VIDEO CONNECTION" then press yellow **8**.



3 Press blue or green to select input or output then press yellow **8**.


4 Press blue or green repeatedly to select the desired input or output source then press OK **6**.

5 Press the MENU button **13** to restore the normal TV picture.

Note: If you select 'AUTO' for output, the output source automatically becomes the same as the desired input source.

Using AV Label Preset

This function enables you to label the input sources using up to five characters (letters or numbers).







- 1 Press the MENU button **13**.
- 2 Press blue or green **8** to select the symbol  on the screen then press yellow **9**.
- 3 Press blue or green **8** to select 'AV LABEL PRESET' then press yellow **9**.

AV LABEL PRESET	
INPUT	LABEL
■ AV1	-----
RGB	-----
AV2	-----
YC2	-----
AV3	-----
YC3	-----
- 4 Press blue or green **8** to select the desired input source then press yellow **9**.
- 5 Press blue or green **8** to select a letter or number then press yellow **9** (select '-' for a blank).
Select other characters in the same way.
- 6 After selecting all the characters, press OK **6**.
- 7 Repeat steps 4 to 6 to label other input sources.
- 8 Press the MENU button **13** to restore the normal TV screen.

For Your Information

Troubleshooting

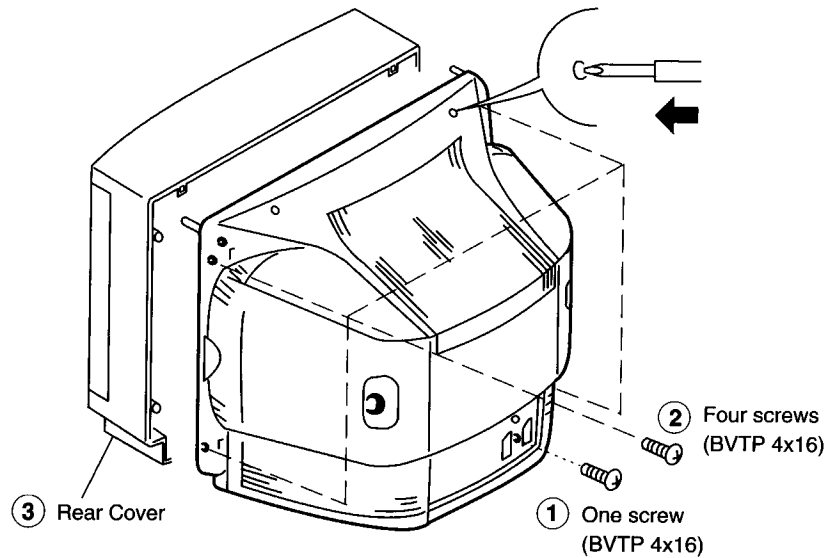
Here are some simple solutions to the problems which affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	<ul style="list-style-type: none"> • Plug the TV in. • Press 11 on the TV. (If  indicator H is on, press 3 or a programme number 4 on the Remote Commander.) • Check the aerial connection. • Check if the selected video source is on. • Turn the TV off for 3 or 4 seconds then turn it on again using 11.
Poor or no picture (screen is dark), but good sound	<ul style="list-style-type: none"> • Press MENU 13 to enter the 'PICTURE CONTROL' menu and adjust 'Contrast', 'Brightness' and 'Colour'.
Poor picture quality when watching an RGB video source.	<ul style="list-style-type: none"> • Press  11 E repeatedly to select .
Good picture but no sound	<ul style="list-style-type: none"> • Press  + 9 F. • If  is displayed on the screen, press  1.
No colour for colour programmes	<ul style="list-style-type: none"> • Press MENU 13 to enter the 'PICTURE CONTROL' menu, select 'Reset' then press OK 6.
Remote Commander does not function.	<ul style="list-style-type: none"> • Replace the batteries.

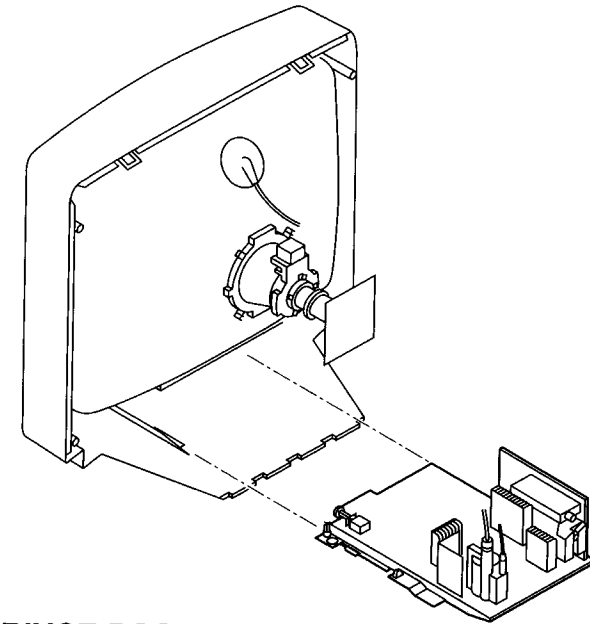
If you continue to have problems, have your TV serviced by qualified personnel.
Never open the casing yourself.

SECTION 2 DISASSEMBLY

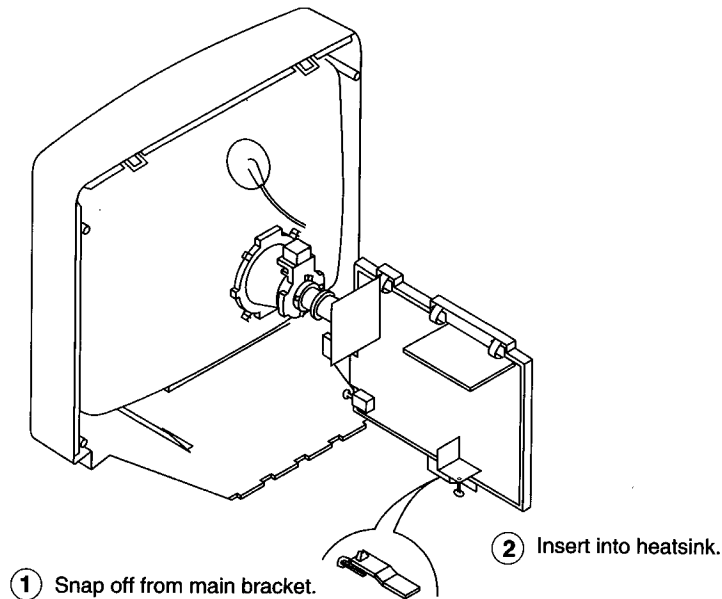
2-1. REAR COVER REMOVAL



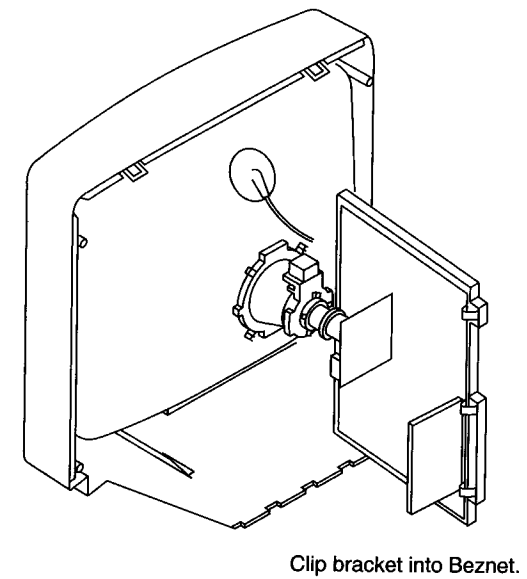
2-2. CHASSIS ASSY REMOVAL



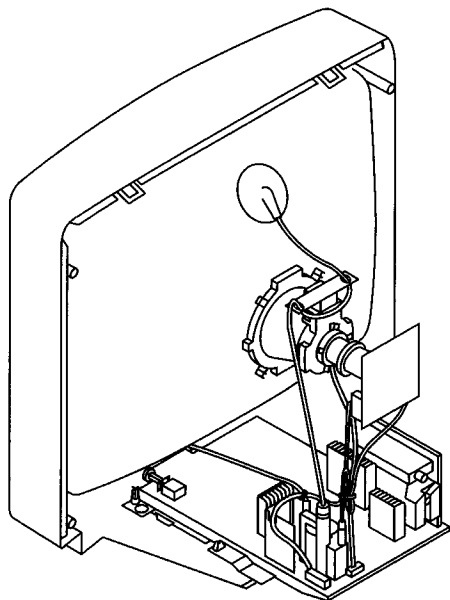
2-3-1. SERVICE POSITION (1)



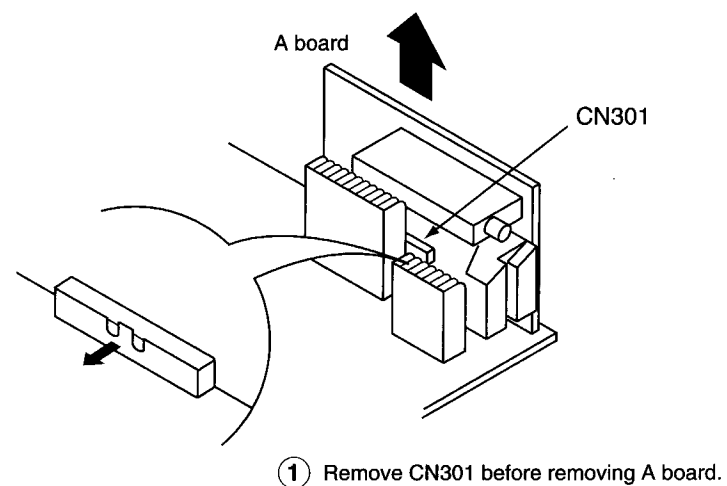
2-3-2. SERVICE POSITION (2)



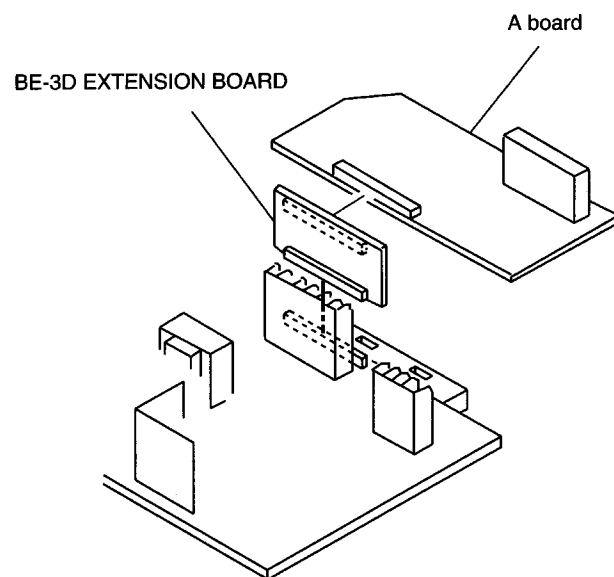
2-4. WIRE DRESSING



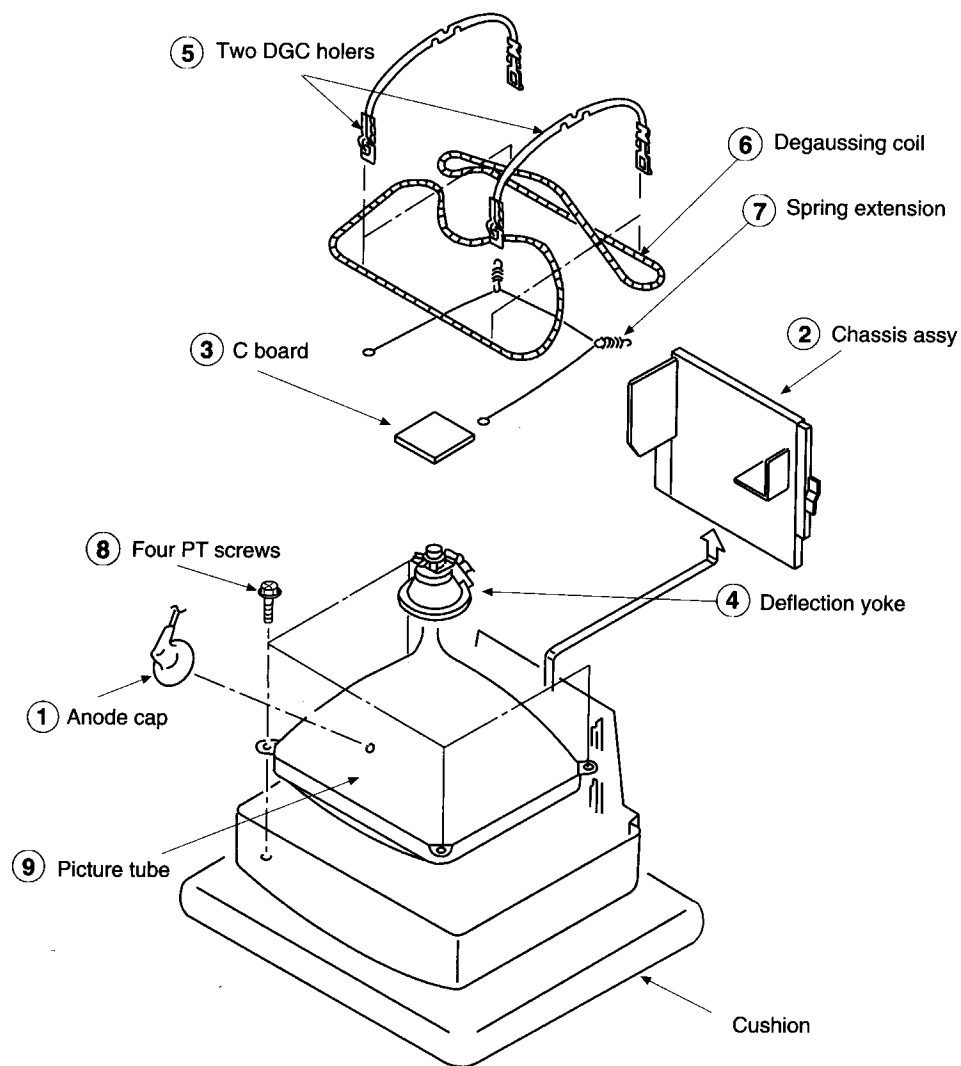
2-5. A BOARD REMOVAL



2-6. EXTENSION BOARD



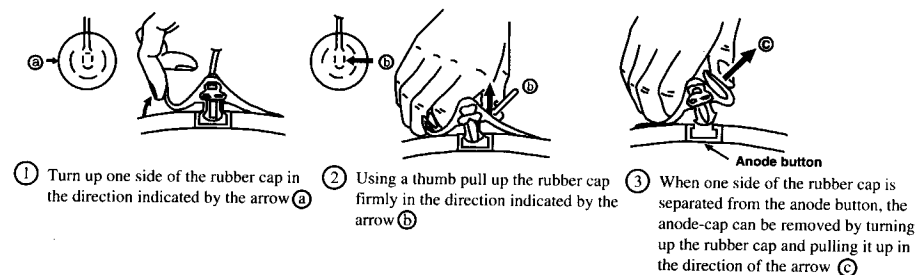
2-7. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

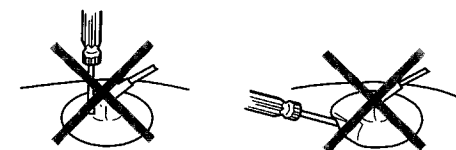
Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

• REMOVING PROCEDURES.



• HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built into the rubber.
- ③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or damage the rubber.



REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed circuit, the bottom plates fitted to the main chassis bracket require to be removed. This is performed by cutting the gates with a sharp wire cutter at the locations shown and indicated by arrows.

Note : There are 5 plates fitted to the main bracket and secured by 4 or 6 gates. Only remove the necessary plate to gain access to the circuit board.

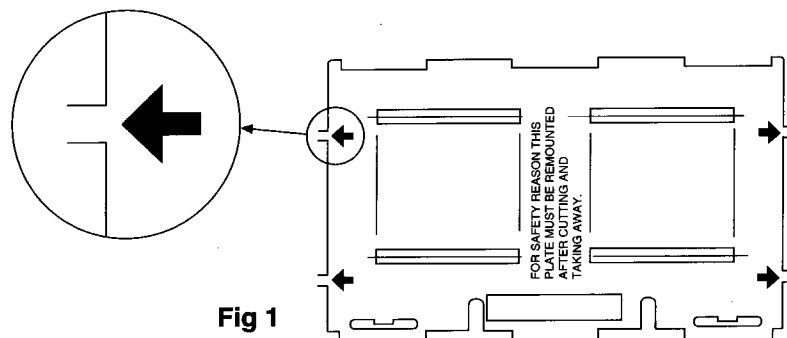


Fig 1

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

The plates are identified by markings A-B-C-D-E on their top side.

1. Identify the plate by locating its marking.
2. Turn the plate over noting where the marking is located.
3. Locate the corresponding marking indicated on the main chassis bracket. See Fig 2.
4. Refit the plate as indicated in Fig 3 with the markings located next to each other.

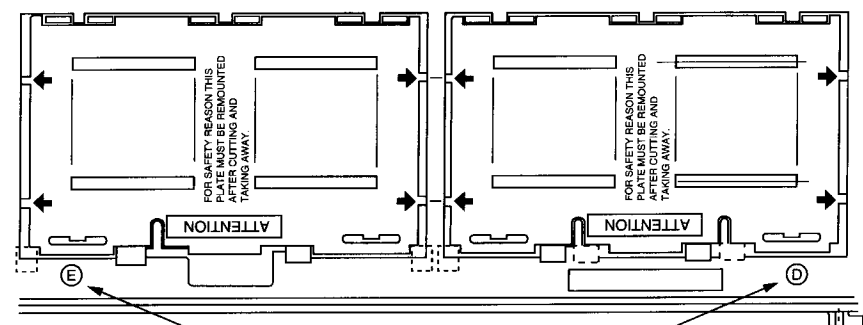


Fig 2

INDEX MARKING
AT BRACKET FRAME

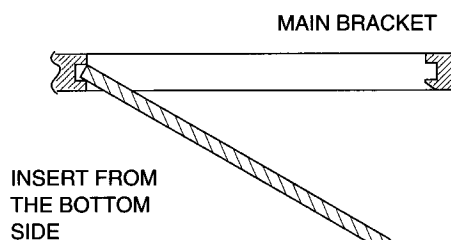


Fig 3

In the event of the plates requiring to be removed at a later stage, this can be achieved by inserting a screwdriver in the snap-recess indicated as in Fig 4 and lifting out.

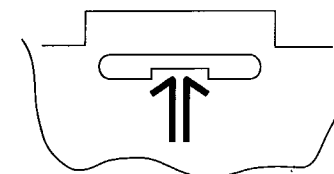


Fig 4

SECTION 3

SET - UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to these settings :

● Contrast 80% (or remote control normal)
 ☼ Brightness 50%

- Carry out the following adjustments in this order :
 1. Beam landing
 2. Convergence
 3. Focus
 4. White balance

Note: Testing equipment required.

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
 CONTRAST } normal
 BRIGHTNESS }
2. Set the pattern generator raster signal to red.
3. Move the deflection yoke forward and adjust with the purity control so that the red is at the centre and the blue and the green take up equally sized areas on each side. (See Fig. 3-1 - 3-3)
4. Move the deflection yoke forward and adjust so that the entire screen becomes red. (See Fig. 3-1)
5. Switch the raster signal to blue, then to green and verify the condition.
6. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
7. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4)

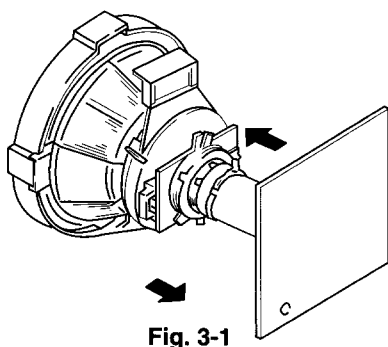


Fig. 3-1

Fig. 3-2

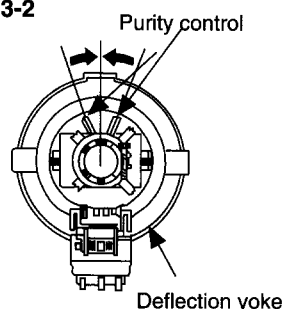


Fig. 3-3

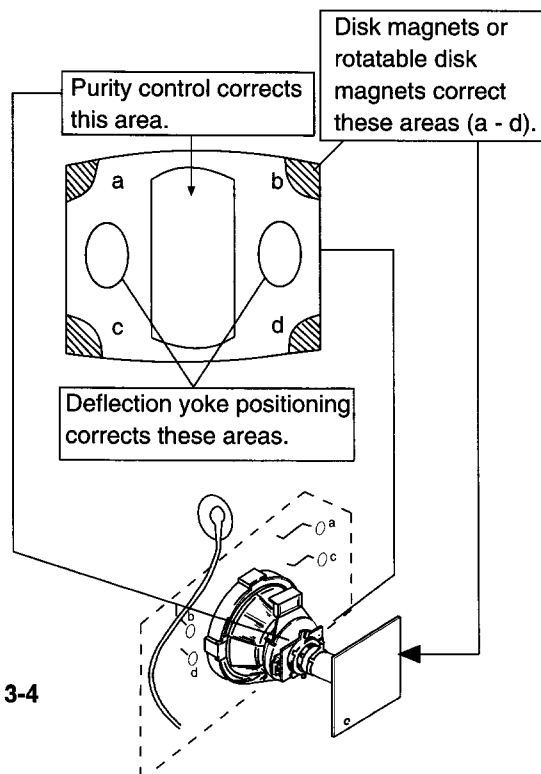
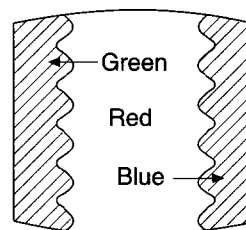


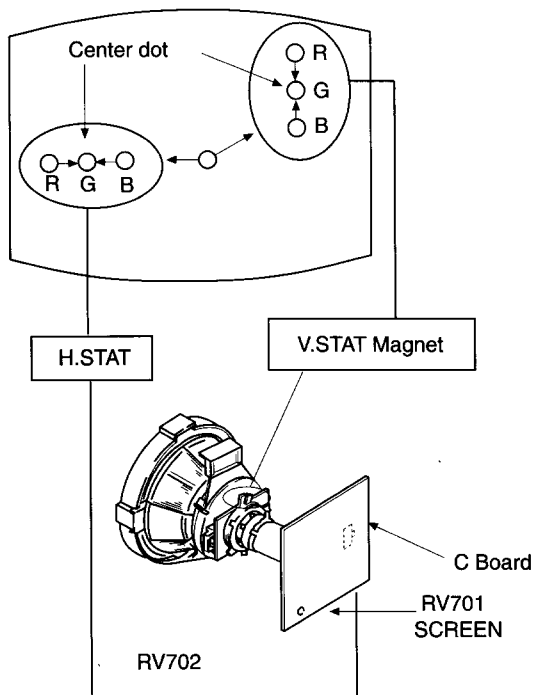
Fig. 3-4

3-2. CONVERGENCE

Preparation:

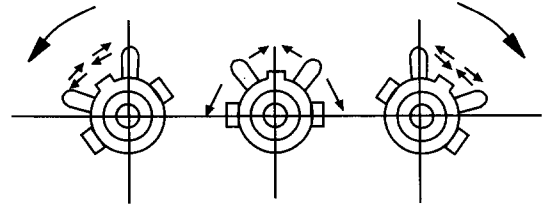
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide a dot pattern.

(1) Horizontal and vertical static convergence

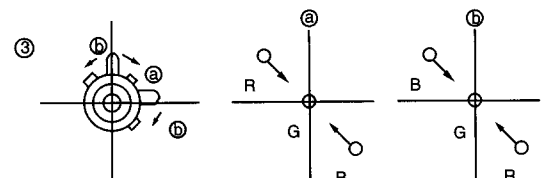
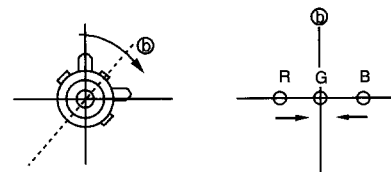
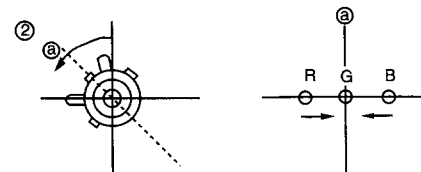
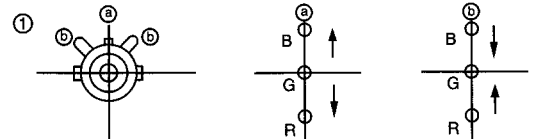


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the centre of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the centre of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

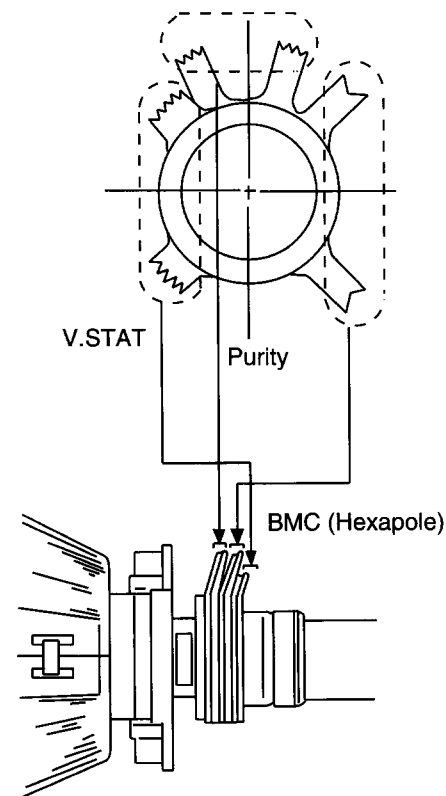
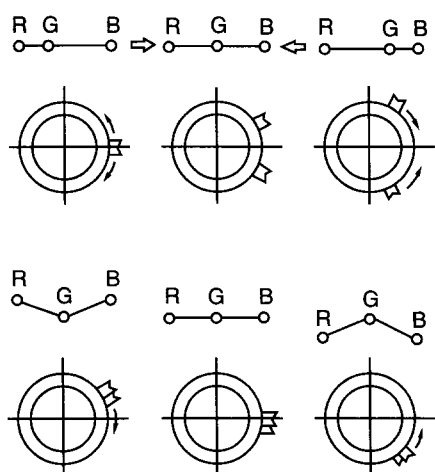
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.



- Operation of BMC (Hexapole) Magnet

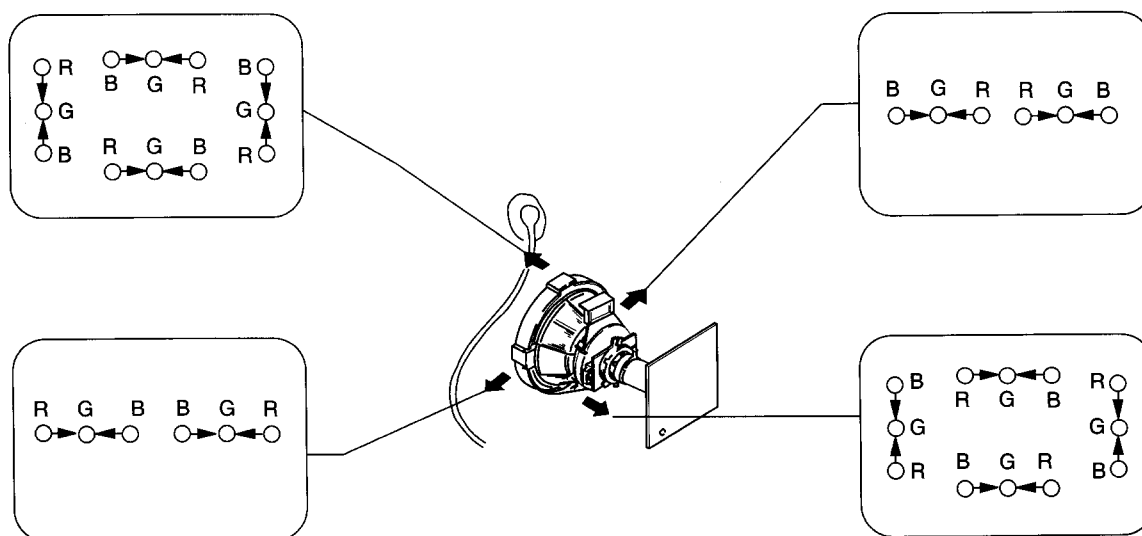


- The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the centre of the screen (by moving the dots in the horizontal direction).

(2) Dynamic convergence adjustment.

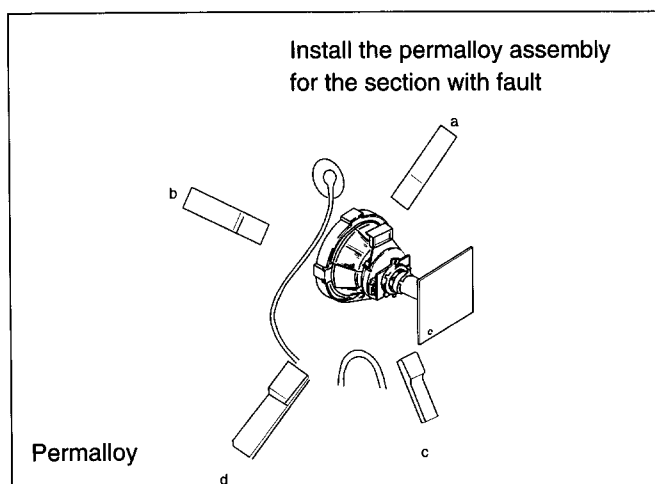
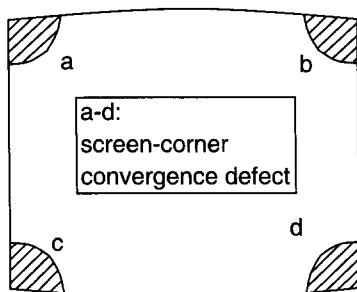
Preparation:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- Slightly loosen the deflection yoke screws.
 - Remove the deflection yoke spacer.
 - Move the deflection yoke as shown in the figure below and optimize the convergence.
 - Tighten the deflection yoke screws.
 - Re-install the deflection yoke spacer.



(3) Screen corner convergence.

If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.

**3-3. WHITE BALANCE****G2 Setting**

1. Switch the set into AV mode (apply no signal to the AV connectors).
2. Connect a Volt Meter to Test Point 1 on the A board.
3. Adjust RV01 to obtain a voltage of $3.0V \pm 0.3V$.

White balance adjustment

1. Input an all white signal from the pattern generator.
2. Enter into the service mode.
3. Enter into Picture Adjustment service menu.
4. Select sub-contrast and adjust to 7.
5. Select the Green Drive and adjust so that the white balance becomes optimum.
6. Select the Blue Drive and adjust so that the white balance becomes optimum.
7. Press the TV button to return to TV operation.

PICTURE ADJUSTMENT

AFC mode	1
REF position	3
SCP BGR	1
SCP BGF	1
Trap Fo	7
Sub contrast	Adj
Sub colour	Adj
Sub brightness	Adj
Sub hue	Adj
Green drive	Adj
Blue drive	Adj
Green cutoff	Adj
Blue cutoff	Adj
Gamma	0
Pre / overshoot	0
Y delay	5

SECTION 4

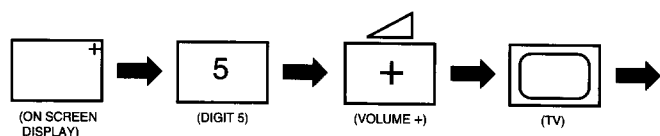
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-839.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set and enter into standby mode.
2. Press the following sequence of buttons on the Remote Commander.



"TT--" will appear in the top right corner of the screen. Other status information will also be displayed.

3. Press MENU on the commander to obtain the following menu on the screen.

TEST MENU

> Picture adjustment
 Geometry
 Wide
 MSP
 IC status
 Current TV status

4. Move to the corresponding adjustment using the ↓ button on the commander.
5. Press the + button to enter the selected adjustment.
6. Turn off the power to quit the service mode when adjustments are completed.

PICTURE ADJUSTMENT

AFC mode	1
REF position	3
SCP BGR	1
SCP BGF	1
Trap Fo	7
Sub contrast	Adj
Sub colour	Adj
Sub brightness	Adj
Sub hue	Adj
Green drive	Adj
Blue drive	Adj
Green cutoff	Adj
Blue cutoff	Adj
Gamma	0
Pre / overshoot	0
Y delay	5

GEOMETRY ADJUSTMENT

V Size	Adj
V Position	Adj
S Correction	Adj
V Linearity	Adj
H Size	Adj
H Position	Adj
Pin Amp	Adj
Pin Phase	Adj
AFC Bow	Adj
AFC Angle	Adj
EHT V	Adj
EHT H	Adj
Corner Pin	Adj

WIDE

V Aspect	43
V Scroll	31
Upper V Lin	0
Lower V Lin	0
Left Blanking	1
Right Blanking	11

MSP

AGC ON/OFF	ON
Constant gain CDB	0
FM prescale FMP	36
Zwei mono-st WHI	36
Zwei st-mono WLO	18
Zwei mono-bi WMH	36
Zwei bi-mono WLO	18
Time zwei WML	41
Fawct limit	10
Fawct soll init FAW	12
Fawer tol	2
Nicam Err Max CCT	10
Nicam Err Min	0
Nicam Prescale NIP	97
Time Nicam	31
Carrier mute CRM	OFF
Audio clock ACO	HIZ
Scart prescale	25
Scart volume	64

IC STATUS (CXA2000 / CXA2040)**CXA2000**

H lock	1
IKR	1
VNG	0
X-RAY	0
Colour system	3
CV1 Sync	1

CXA2040

Sync sep	1
S1 mode pin	01
S2 mode pin	01

TUNER

Tuner status	01101011
--------------	----------

TV STATUS

Text system	C TEXT/TV TEXT
Dolby	NO/YES
Text language set	WEST/EAST/RUSSIAN
Menu language set	WEST/EAST/RUSSIAN
Destination	B/D/U/K/L/E/A/R
Scart 16:9	OFF/ON
RGB priority	OFF/ON
Ageing	OFF/ON
Size	29/25
Colour trap sw	SECAM/ALL
Velocity mod	ON/OFF
AFT STATUS	WINDOW/HIGH/LOW

SUB BRIGHTNESS ADJUSTMENT

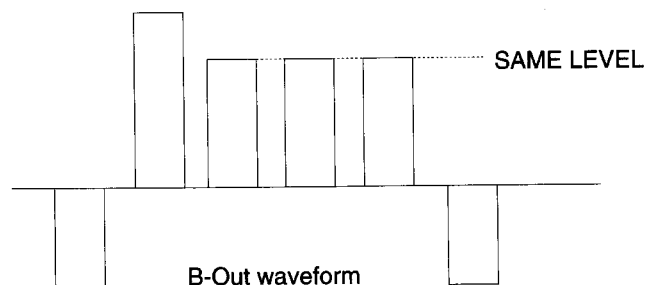
1. Input a Phillips pattern.
2. Set the picture control to minimum.
3. Enter into the Picture Adjustment Service Menu.
4. Adjust the Sub-Brightness data so that there is barely a difference between the 0 IRE and 10 IRE signal.

SUB CONTRAST ADJUSTMENT

1. Input a video that contains a small 100% area on a black background.
2. Set the picture control to maximum.
3. Connect an oscilloscope to pin 3 of CN301 (A board).
4. Enter into the Picture Adjustment Service Menu.
5. Adjust the Sub-contrast data to obtain a black to white amplitude of 2.50 volts.

SUB COLOUR ADJUSTMENT

1. Receive a PAL Colour Bar video signal.
2. Connect an oscilloscope to pin 3 of CN301 (A board).
3. Enter into the Picture Adjustment Service Menu.
4. Adjust the sub colour data so that cyan, magenta and blue colour bars are of equal height.



NOTE: The data shown in the TV STATUS table is dependant on destination, screen size and country.

SYSTEM B/G, D/K, I & L I.F. ADJUSTMENT

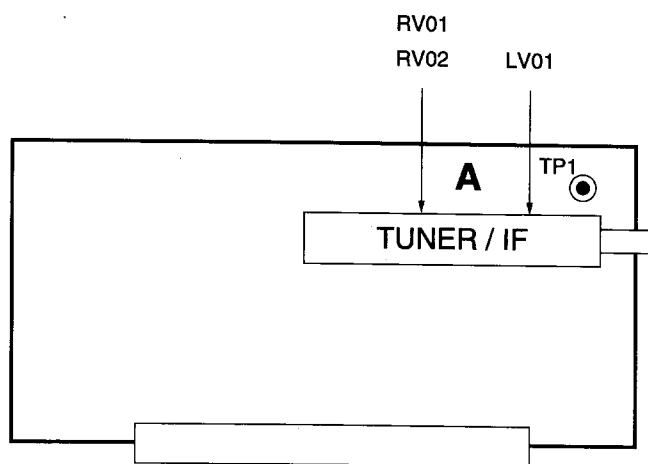
1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
2. Enter into the I.F. adjustment service mode (i.e. " TT 59 ") to fix the I.F frequency to 38.9 MHz.
3. Enter into the service mode and select "Current TVStatus".
4. Adjust the I.F coil (LV01) until the "AFT Status" indicates a " Window " condition.

SYSTEM L BAND 1 I.F. ADJUSTMENT

1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
2. Enter into the I.F. adjustment service mode (i.e. " TT 59 ") to fix the I.F frequency to 34.2 MHz.
3. Enter into the service mode and select "Current TVStatus".
4. Adjust the RV02 until the "AFT Status" indicates a " Window " condition.

TUNER AGC ADJUSTMENT

1. Receive a signal of 63dBuV / 75 ohm terminated via the tuner socket.
2. Measure the voltage at test point 1 (A board).
3. Adjust RV01 to obtain a voltage of $3.0V \pm 0.3V$.



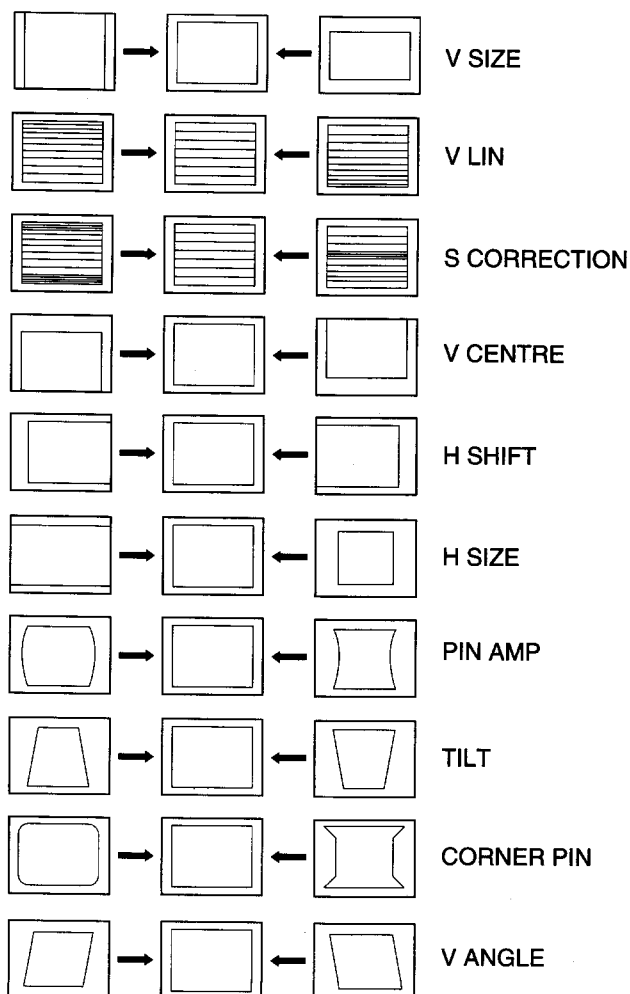
- A Board component side -

DEFLECTION SYSTEM ADJUSTMENT

1. Enter into the Geometry Adjustment Service Menu.
2. Select and adjust each item in order to obtain the optimum image.

GEOMETRY ADJUSTMENT

V Size	Adj
V Position	Adj
S Correction	Adj
V Linearity	Adj
H Size	Adj
H Position	Adj
Pin Amp	Adj
Pin Phase	Adj
AFC Bow	Adj
AFC Angle	Adj
EHT V	Adj
EHT H	Adj
Corner Pin	Adj



4-2. TEST MODE 2:

Is available by pressing Test button twice, OSD " TT " appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0 twice, or switch the TV into stand-by mode.

00	Switch test mode 2 off
01	Picture maximum
02	Picture minimum
03	Volume 30%
04	Set service menu mode
05	Set production menu mode
06	Volume 80%
07	Set ageing condition
08	Set shipping condition
09	Language reset
10	No function
11	Adjustment without OSD
12	Dummy
13	Display TV configuration
14	Forced AV 6:9 mode
15	Reset LPM from ROM data
16	copy LPM to reset memory
17	Preset label for AV sources
18	RGB priority on/off
19	Clear all preset labels
20	No function
21	Sub contrast
22	Sub colour
23	Sub brightness
24	Set destination = U
25	Set destination = D
26	Set destination = B
27	Set destination = K
28	Set destination = L
29	Set destination = E
30	No function
31	Set destination =A
32	Dummy
33	Auto AGC
34	Dummy
35	Manual AGC adjust

36-40	Dummy
41	Re-initialise NVM
42	Production use only
43	Initialise geometry settings
44	Initialise all favourite pages = 100
45	Channel locks = off
46	Dealer commander mode
47	Default MSP settings
48	Restore NVM test byte
49	Delete NVM test byte
50-60	No function
61	Turn on Dolby Pro Logic mode
62	White noise to left speaker
63	White noise to right speaker
64	White noise to centre speaker
65	White noise to rear speaker
66	Set standard stereo mode
67	Set Pro Logic normal mode
68	Set Pro Logic wide mode
69	Set Pro Logic phantom mode
70	No function
71	Picture rotation on/off
72	Dolby register settings
74	No function
75	Reset picture colour balance
76	Reset picture geometry
77	Reset sound settings
78	Reset error codes in the NVM
79-99	No function

4-3. BE-3D SELF DIAGNOSTIC SOFTWARE

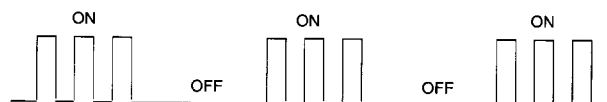
The identification of errors within the BE-3D chassis is triggered in 1 of 2 ways :- 1: Bus busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the led (Series of flashes which must be counted) See Table 1, non fatal errors are reported with this method.

Table 1

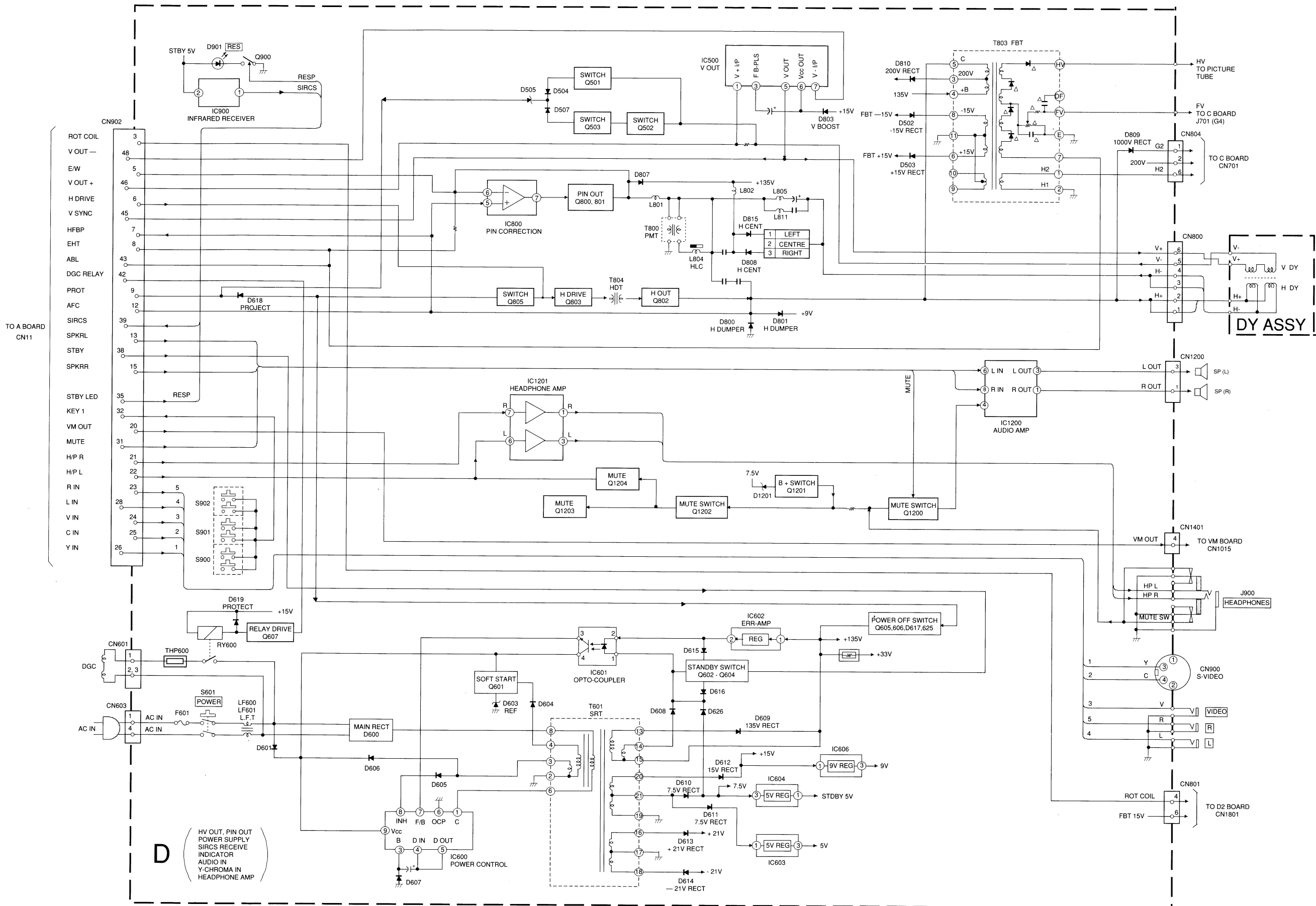
ERROR	LED ERROR COUNT
Protection circuit trip < ANY TIME >	02
IIC SCL LOW < POWER UP ONLY >	03
IIC SDA LOW < POWER UP ONLY >	04
IIC SDA & SCL LOW < POWER UP ONLY >	05
Jungle/Chroma controller no acknowledge < POWER UP ONLY >	06
Video Switch no acknowledge < POWER UP ONLY >	07
Tuner no acknowledge	08
MSP no acknowledge	09
NVM no acknowledge	10
M3L TXD LOW < POWER UP ONLY >	11
M3L RXD LOW < POWER UP ONLY >	12
M3L ENABLE LOW < POWER UP ONLY >	13
M3L TXD & RXD LOW < POWER UP ONLY >	14
Compact Text test fail < POWER UP ONLY >	15
AV switch cannot power on reset	16
Cannot initialise jungle	17
NVM acknowledge fail after initialisation	18
Multiple devices with no acknowledge < POWER UP ONLY >	19
Compacttext run-time failure	20
AVSWITCH response failure after power up	21
JUNGLE/CHROMA controller response failure after power up	22
CompactText does not respond	23

Flash Timing Example : e.g. error number 3.

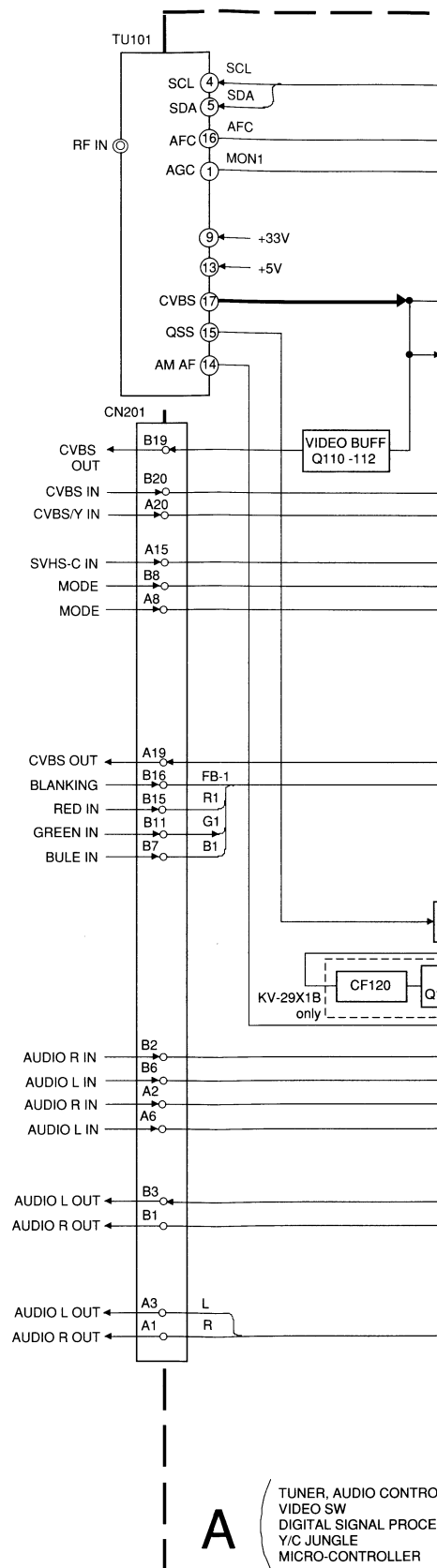
Stby LED



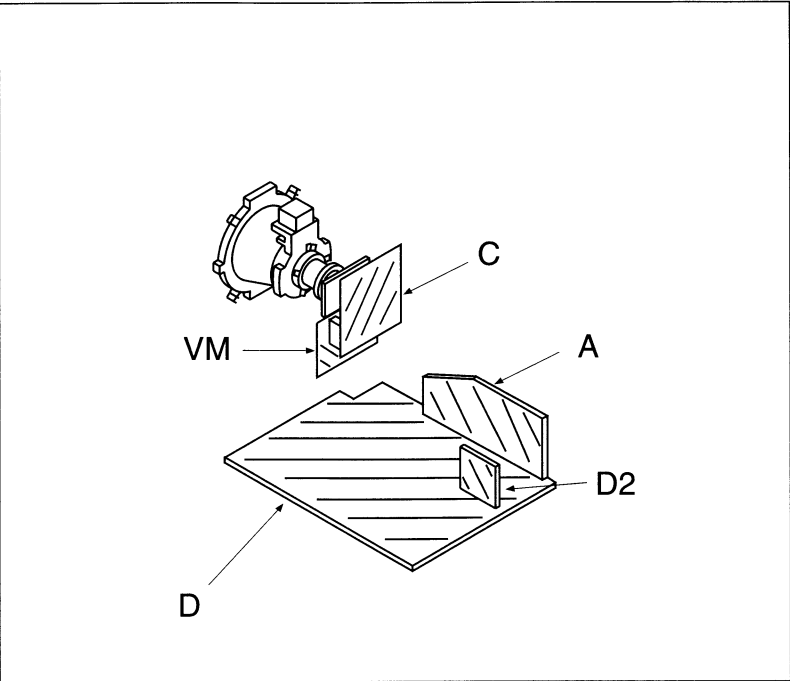
BLOCK DIAGRAM (1)



BLOCK DIAGRAM (2)



5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
k = 1000 , M = 1000K
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power $\frac{1}{4}$ W

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth - ground.
- : earth - chassis.
- : no mounted.

Note : The components identified by shading and marked are critical for safety. Replace only with the part number specified.

Note : Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

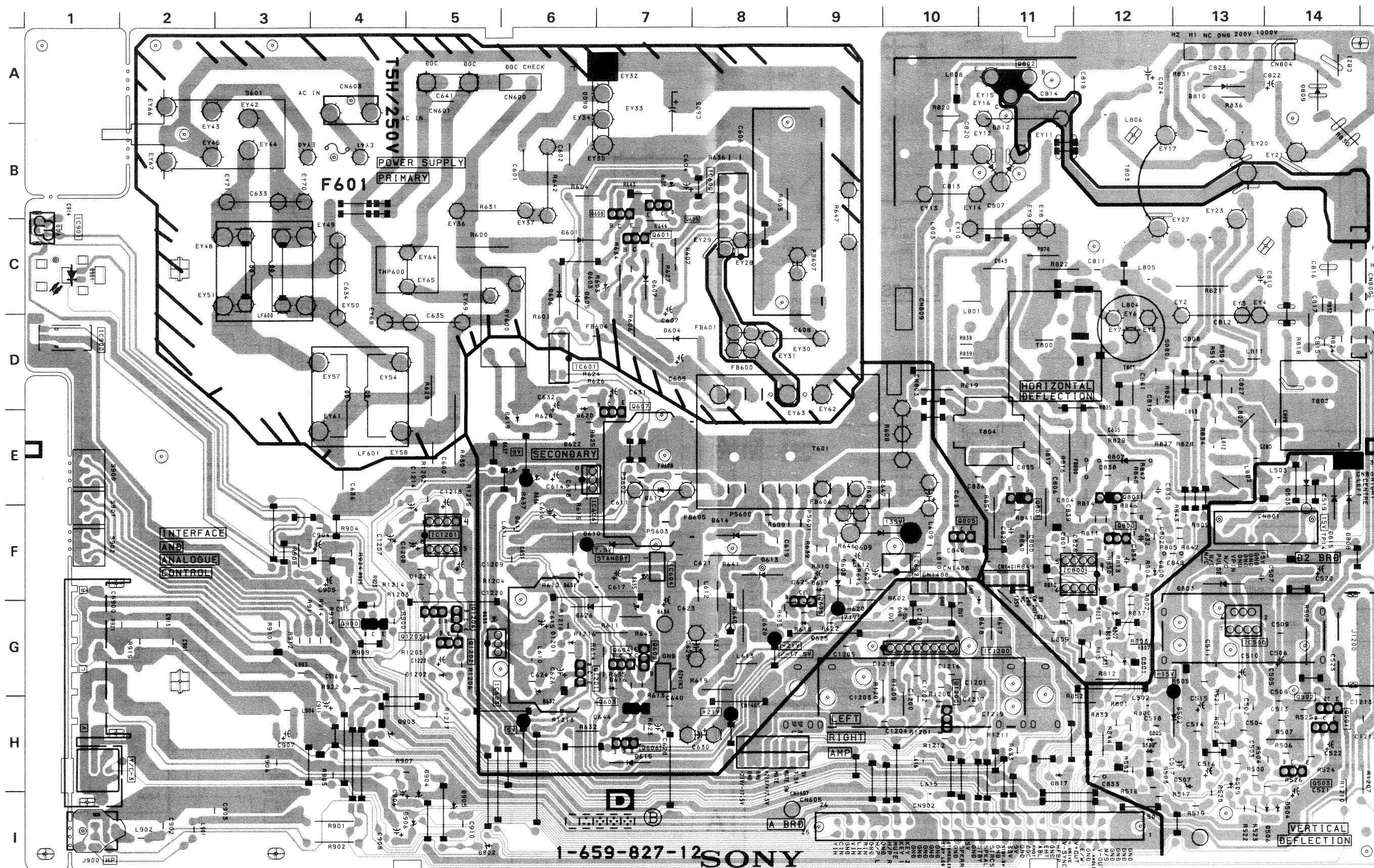
Reference information

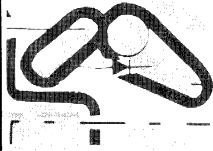
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: X	ADJUSTABLE RESISTOR
	: LF-8L	MICRO INDUCTOR
	: TA	TANTALUM
CAPACITOR	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a colour-bar signal input.
- Readings are taken with 10M Ω digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

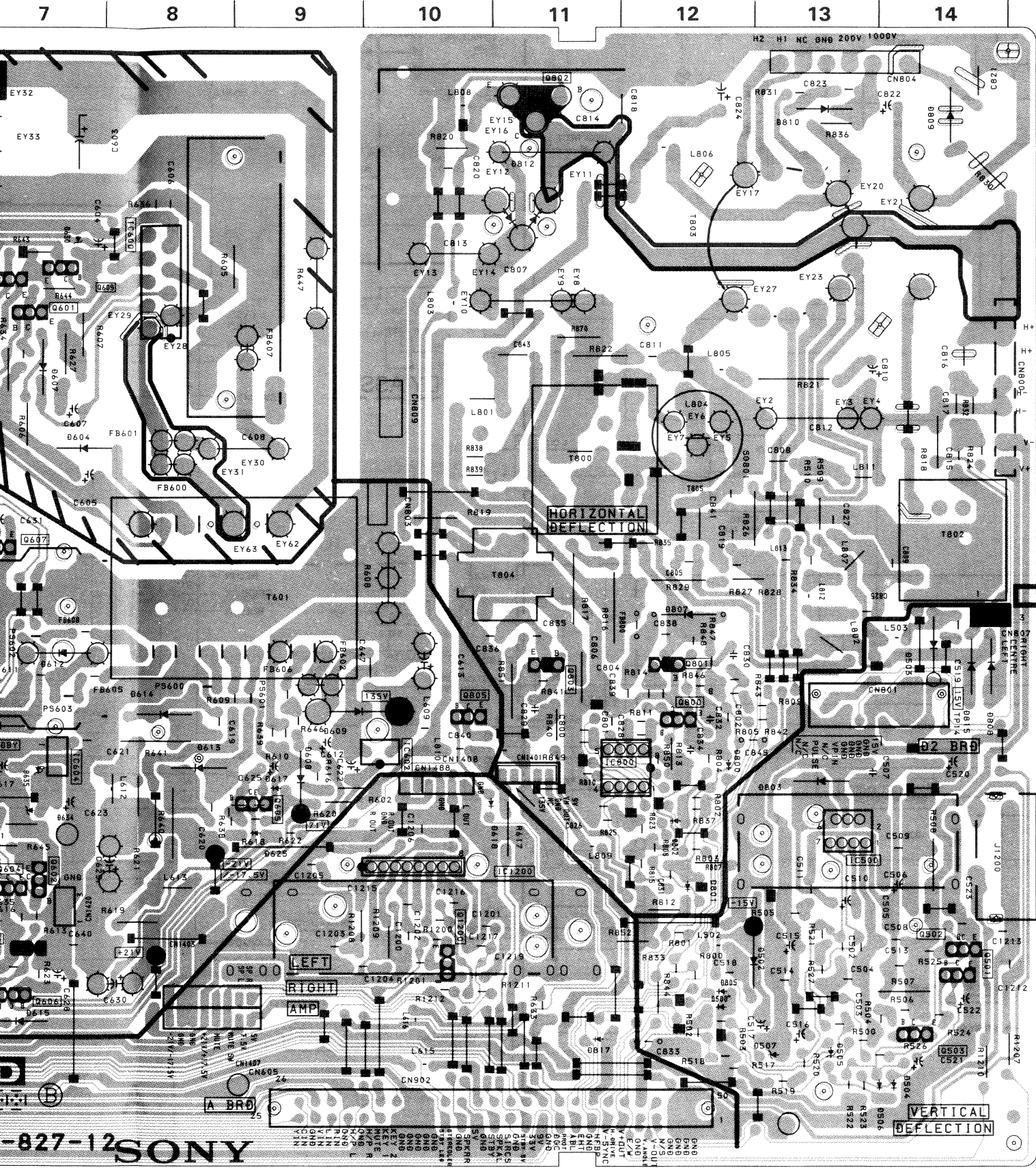
D Board

D Board



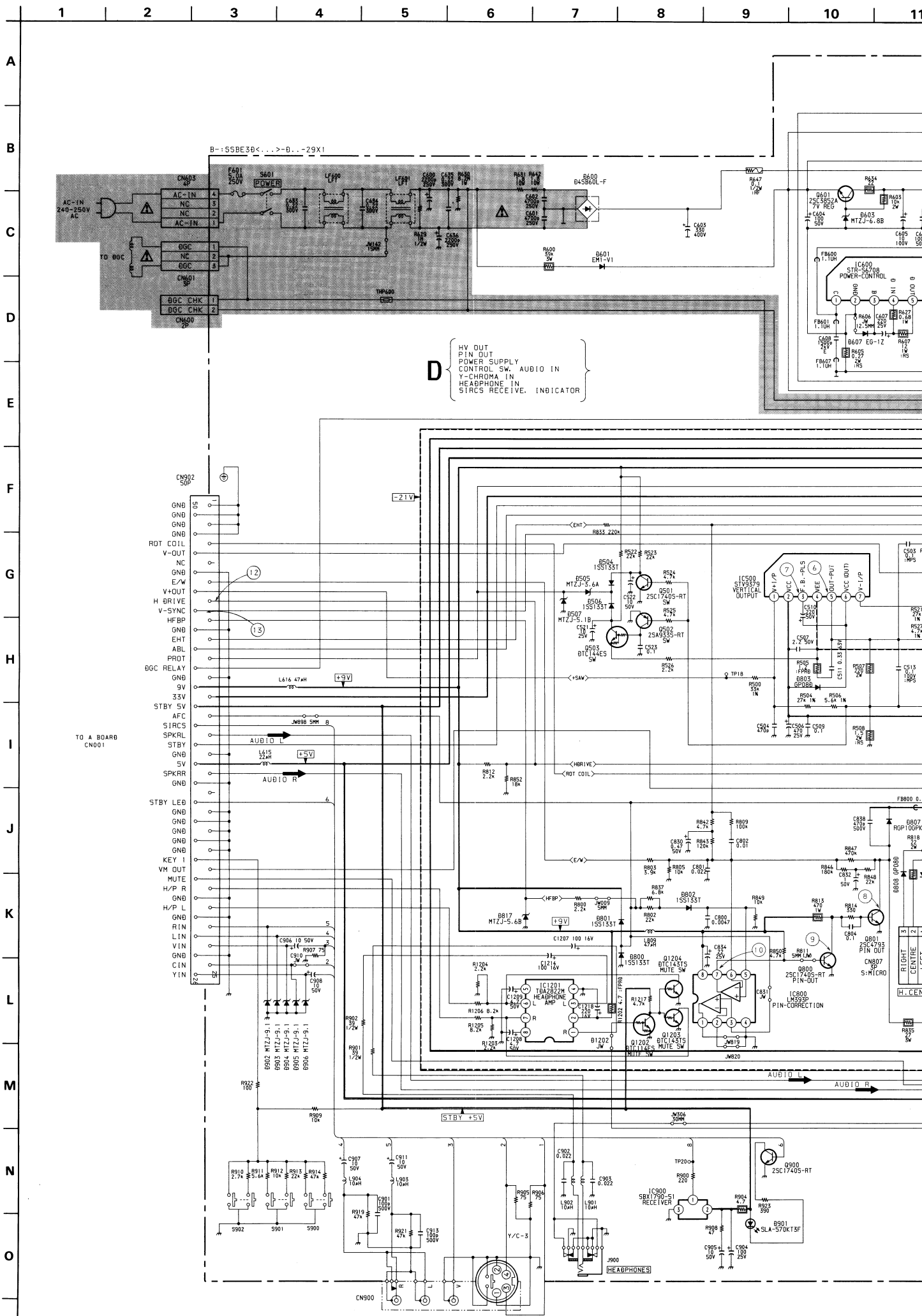


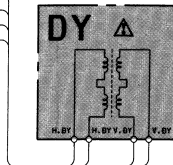
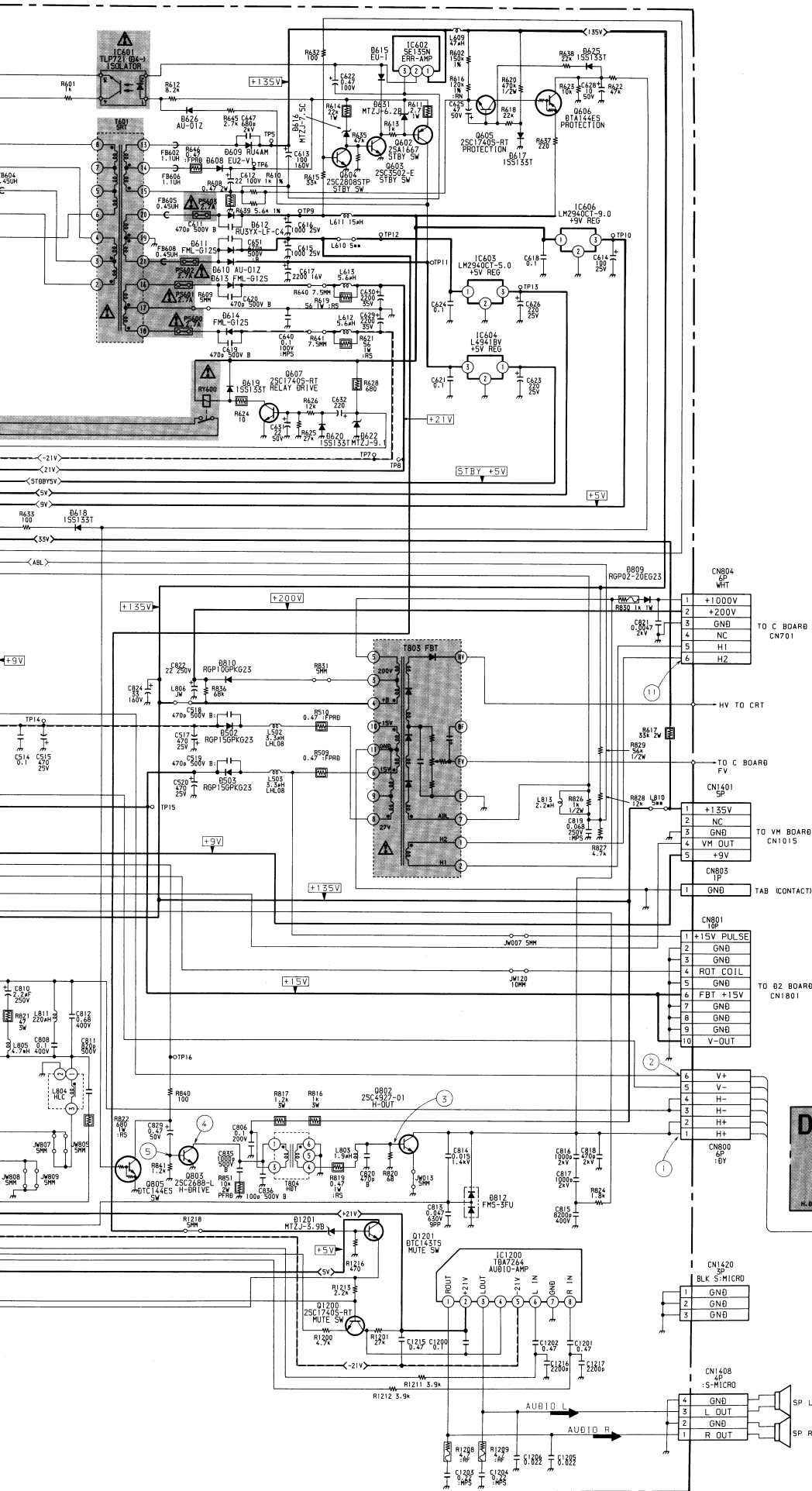
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



D BOARD

IC		DIODE	
IC500	G-13	D600	A-7
IC600	B-8	D601	C-6
IC601	D-6	D603	C-7
IC602	F-10	D604	D-7
IC603	G-5	D605	C-6
IC604	F-7	D606	C-6
IC606	E-6	D607	C-7
IC800	F-12	D608	F-9
IC900	D-1	D609	F-9
IC1200	G-10	D610	F-7
IC1201	F-5	D611	F-6
TRANSISTOR		D612	E-7
		D613	F-8
Q501	H-14	D614	F-8
Q502	H-14	D615	H-7
Q503	H-14	D616	G-7
Q601	C-7	D617	F-9
Q602	G-7	D618	F-11
Q603	H-7	D619	E-6
Q604	G-7	D620	E-6
Q605	F-9	D622	E-6
Q606	H-7	D625	G-9
Q607	D-7	D626	G-6
Q800	F-12	D631	F-6
Q801	E-12	D800	F-12
Q802	A-11	D801	G-12
Q803	E-11	D802	G-12
Q805	F-10	D803	F-13
Q900	G-4	D807	E-12
Q1200	H-10	D808	E-14
Q1201	G-6	D809	A-14
Q1202	G-5	D810	A-13
Q1203	G-5	D812	B-11
Q1204	G-5	D815	E-14
DIODE		D817	H-11
		D901	C-1
D500	H-12	D902	I-5
D502	H-13	D903	H-4
D503	I-14	D904	H-5
D504	H-11	D905	I-5
D505	H-13	D906	I-5
D506	I-14		
D507	H-13	D1201	G-6



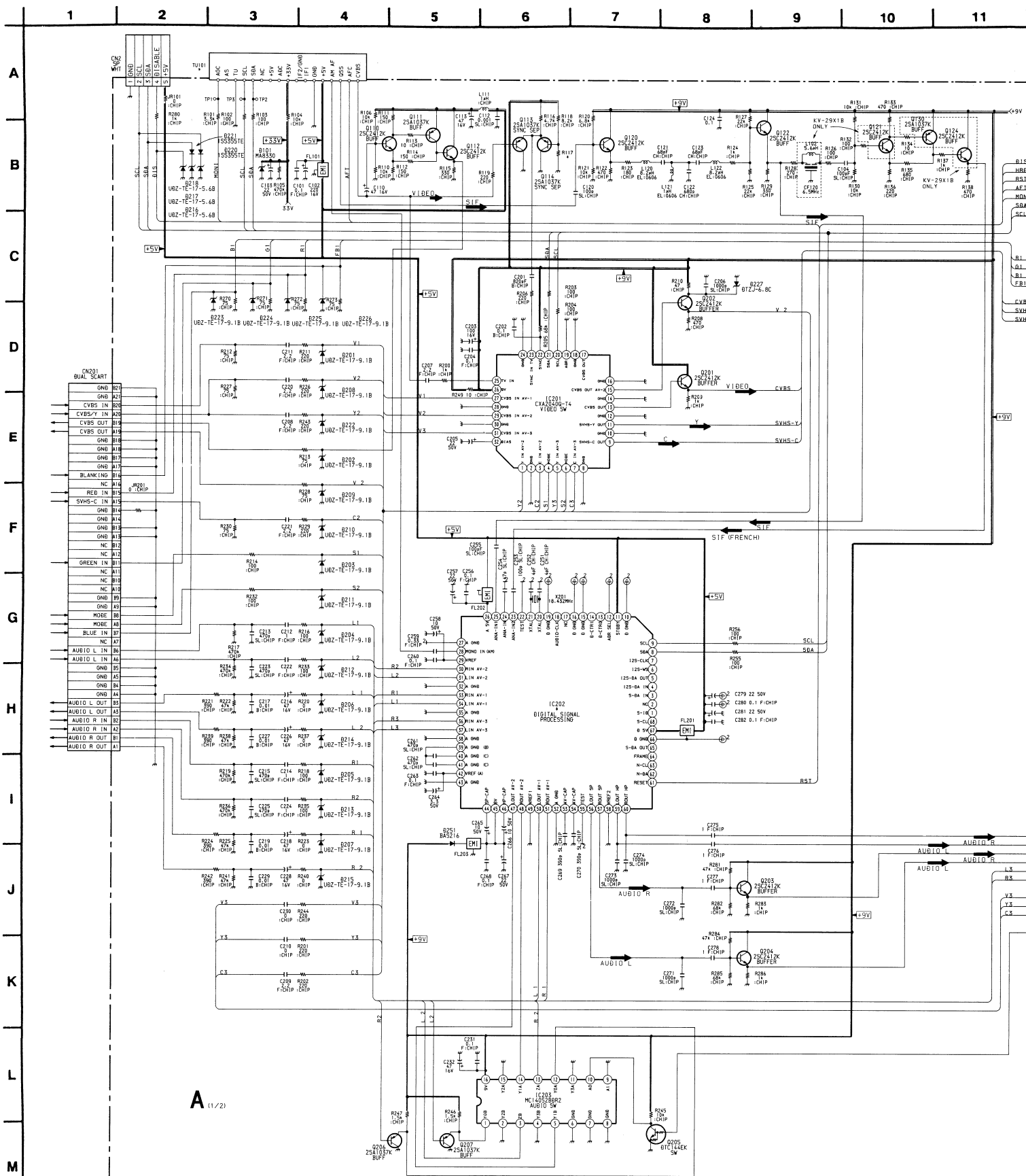


D BOARD
TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q501	-0.1	0.2	-
Q502	0.1	-5.8	-
Q503	-5.8	-12.0	-12.0
Q602	72.0	7.5	72.7
Q603	0	72.0	-
Q604	0.7	-	-
Q605	0.5	-	0.3
Q606	-	-	12.0
Q607	-	12.0	-
Q800	0.2	3.1	-
Q801	0.3	17.0	-
Q802	-0.2	143.3	-
Q803	-0.6	99.8	-
Q805	-	3.6	-
Q900	-	5.4	-
Q1200	2.9	21.5	4.6
Q1201	3.4	5.0	3.0
Q1202	2.8	-	-

D BOARD IC VOLTAGE TABLE

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC500	1	1.5
	2	15.0
	3	-12.3
	4	-14.0
	5	0.1
	6	15.2
	7	1.4
IC600	1	170.0
	2	-62.4
	3	-62.6
	4	-62.2
	5	-62.0
	6	-62.6
	7	-62.4
	8	-62.0
	9	-58.0
IC601	1	64.3
	2	63.0
	3	-62.5
	4	-58.6
IC602	1	135.0
	2	63.2
	3	-0.1
IC800	3	0.9
	5	1.5
	6	2.0
	7	0.2
	8	9.0
IC1200	2	21.7
	4	21.5
	5	-21.7
IC1201	1	4.0
	2	9.0
	3	4.0
	5	0.5
	8	0.5



A BOARD * MARK

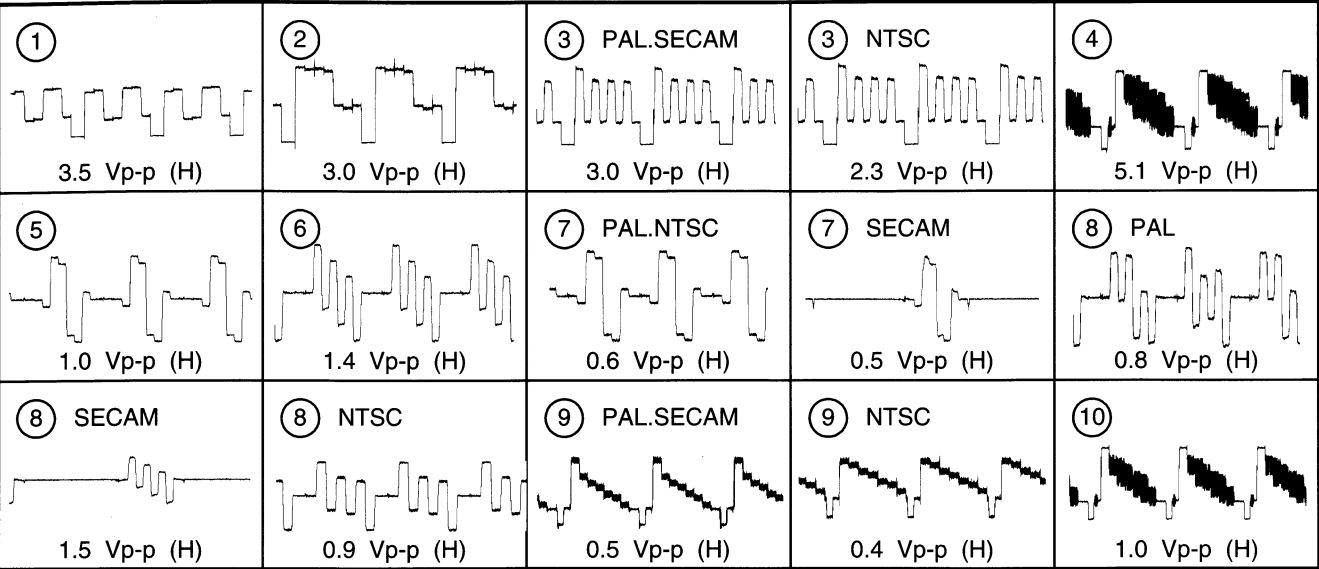
Model	29X1A	29X1B	29X1D	29X1E	29X1K	29X1L	29X1R	29X1U
Ref. No.								
C370	—	2.2UF	2.2UF	2.2UF	2.2UF	—	2.2UF	—
C372	—	0.1UF	0.1UF	0.1UF	0.1UF	—	0.1UF	—
C373	—	0.22UF	0.22UF	0.22UF	0.22UF	—	0.22UF	—
D370	—	BAS216	BAS216	BAS216	BAS216	—	BAS216	—
IC3	TMS27PC010A-15FMBE101	TMS27PC010A-15FMBE101	TMS27PC010A-15FMBE101	TMS27PC010A-15FMBE101	TMS27PC010A-15FMBE101	TMS27PC010A-15FMBW101	TMS27PC010A-15FMBW101	TMS27PC010A-15FMBW101
IC202	MSP3400C-PS	MSP3410-15	MSP3400C-PS	MSP3410-15	MSP3400C-PS	MSP3410-15	MSP3400C-PS	MSP3410-15
IC303	—	TDA8395T	TDA8395T	TDA8395T	TDA8395T	—	TDA8395T	—
R13	150	—	150	150	150	150	150	150
R14	150	—	150	150	150	150	150	150
R15	150	—	150	150	150	150	150	150
R16	100	—	100	100	100	100	100	100
R17	100	—	100	100	100	100	100	100
R117	1.8K	1.8K	1.8K	1.8K	1.8K	1.8K	1.8K	2.0K
TU101	TUVIF (AEP)	TUVIF (FR)	TUVIF (AEP)	TUVIF (AEP)	TUVIF (AEP)	TUVIF (AEP)	TUVIF (AEP)	TUVIF (UK)

IC Voltage Table		
Ref No.	Pin No.	Voltage (V)
IC201	13	4.4
	15	4.4
	20	3.5
	21	2.7
	22	4.9
	23	4.4
	24	0
	25	4.4
IC202	26	8.8
	32	4.4
	4	2.8
	6-7	0.1
	8	3.0
	9	3.6
	11	4.7
	13	4.7
	20-21	2.4
	23	0.2
	25	1.5
	26	4.8
	28	3.8
	29	2.6
	39-42	3.8
	44	7.1
45	8.0	
46	7.1	
47-48	3.8	
53-54	3.8	

Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q1	3.7	4.8	3.1
Q4	0.1	4.8	-
Q5	0.7	4.8	4.0
Q15	-	4.3	-
Q16	4.3	0.2	-
Q17	0.4	3.5	-
Q18	3.5	0.7	-
Q80	2.6	2.2	-
Q81	2.4	-	3.0
Q304	-	4.8	-
Q305	-	4.8	-
Q330	4.5	-	5.1
Q331	6.3	8.8	5.7
Q332	3.1	8.8	2.5
Q1001	4.4	-	-

Ref No	B Base	C Collector	E Emitter
Q110	1.8	8.2	1.2
Q112	1.5	8.8	0.8
Q113	1.8	-	-
Q114	5.4	6.0	-
Q120	84.3	8.8	3.7
Q121	1.5	5.4	0.9
Q122	5.4	8.8	4.7
Q124	-	8.8	-
Q201	4.4	8.8	3.7
Q202	4.4	8.8	3.7

WAVEFORMS A BOARD



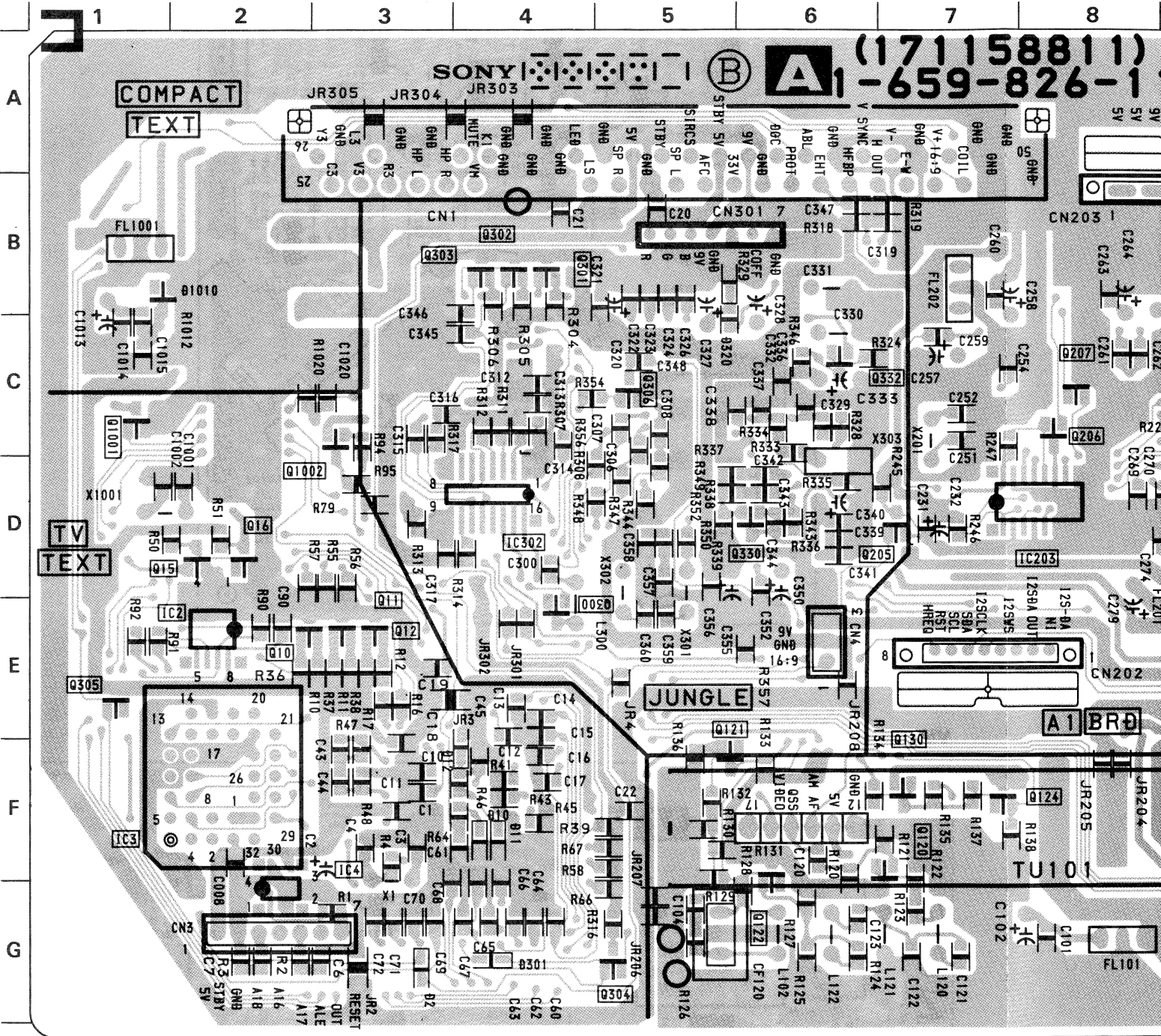
A (2/2) BOARD IC VOLTAGE TABLE

IC Voltage Table								
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC1	2	3.6	IC301	5	3.6	IC301	61	5.0
	3-4	4.8		6	5.0		62	7.6
	5	0.5		7-8	5.4		1	4.8
	7	4.8		10	0.6		5	0.7
	9	4.8		12-14	5.4		9	4.8
	11	2.4		16	4.0		11-12	3.0
	13	4.8		17-19	5.4		14	1.3
	14-15	2.3		20	8.8		16	1.3
	16-17	4.8		22-23	2.2		5	8.0
	48	4.0		24	2.0		3-2	10
	51	4.8		25	2.4		11	5.6
	52-53	2.4		26	2.0		0	19
	54	0.7		27	4.0		20	3.7
	55	0.2		28	6.6		4	0.2
	56-57	4.8		29	8.8		5	0.7
	58	2.8		31-33	3.0		4	0.2
	59	3.5		34	4.0		5	0.7
	60	2.4		35	4.6		6	1.7
	62	0.7		36	8.8		7	1.8
	63	4.4		37	3.1		10	0.4
	65	4.8		38	3.4		11-12	4.8
IC2	66	2.1		39	5.3	IC303	16	4.8
	67	2.0		40	4.2		17	0
	69-71	2.3		41	2.3		21	4.8
	72	4.8		43	1.7		23	3.0
	73	1.5		44	8.8		25	4.8
	74	1.2		45	2.5		56	0
	75-77	4.8		46	3.9		61	1.3
	79	0.2		47	3.0		62-63	1.4
	80	4.8		48	4.4		64	0
				49	6.3		66	4.6
IC3	1	4.8		50-51	0.1	IC1001	67	4.7
	31-32	4.8		53	3.9		68	4.0
IC4	1	4.8		54	5.0			
	3	4.8		55-56	4.2			
IC301	1	1.5		58-59	8.8			
	3-4	5.6		60	5.3			

A

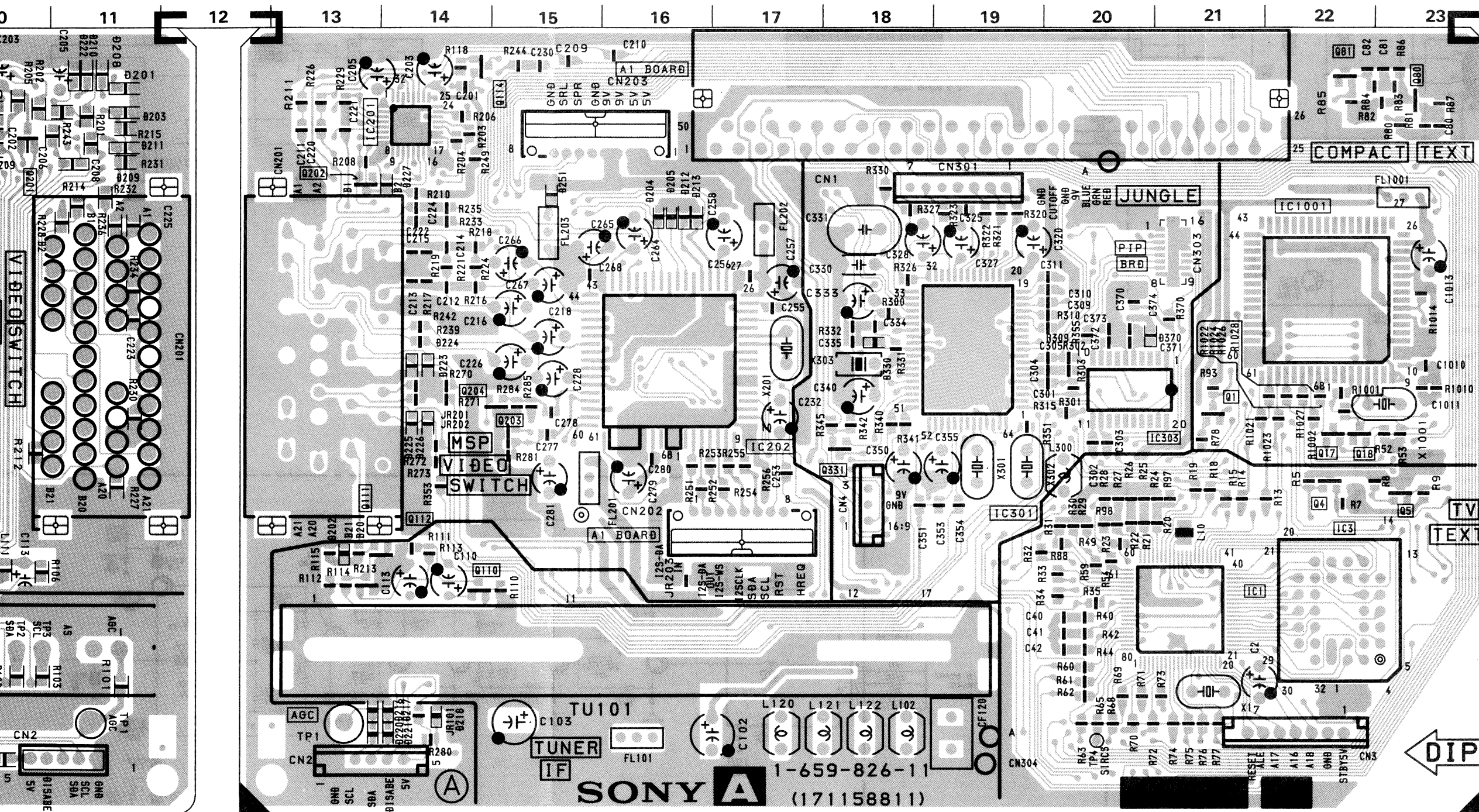
TUNER, AUDIO CONTROL VIDEO SW, DIGITAL SIGNAL PROCESSING
Y/C JUNGLE MICRO CONTROLLER

A Board <Conductor Side>



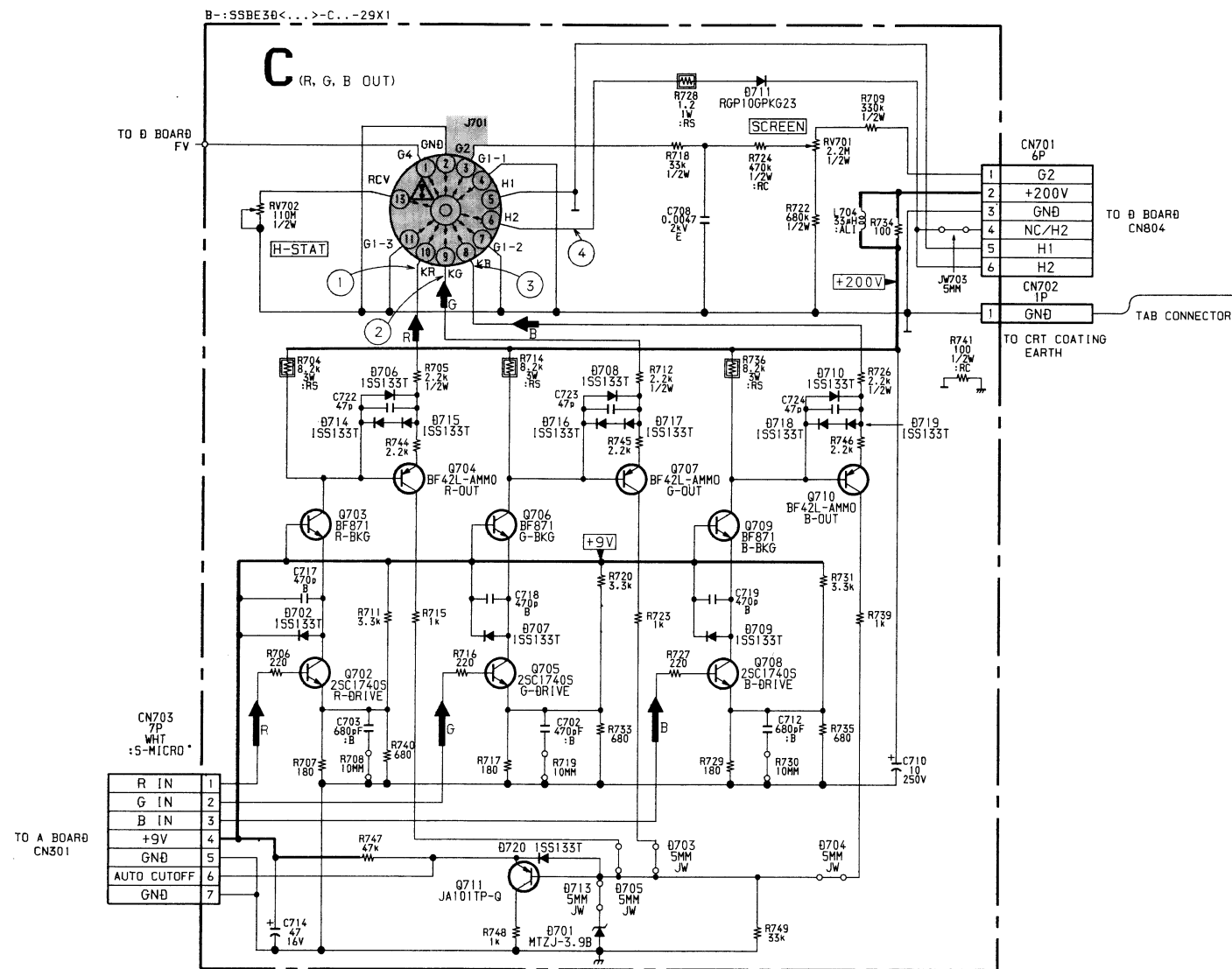
[TUNER, AUDIO CONTROL VIDEO SW, DIGITAL SIGNAL PROCESSING]
[Y/C JUNGLE MICRO CONTROLLER]

A Board <Component Side>

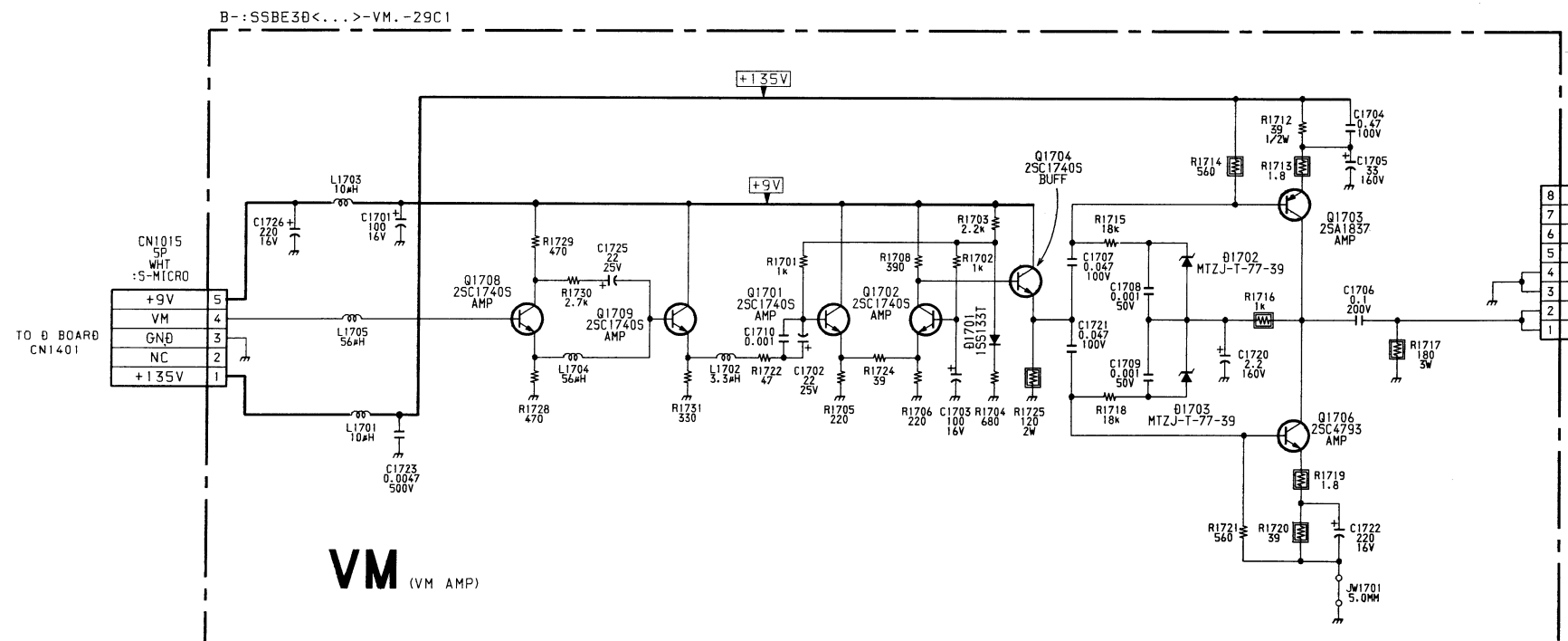
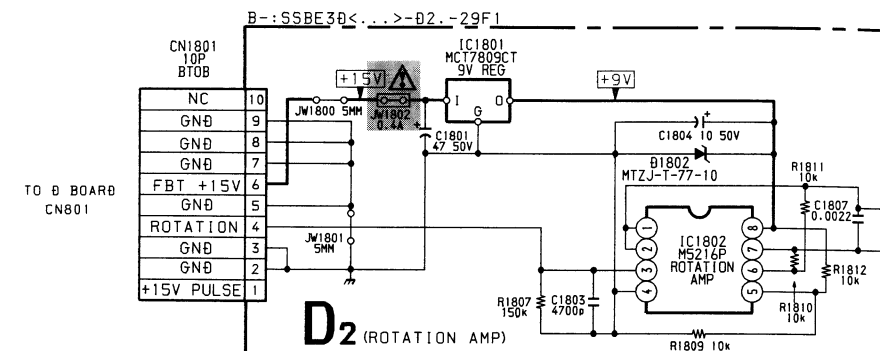
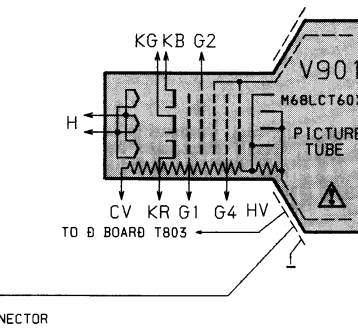
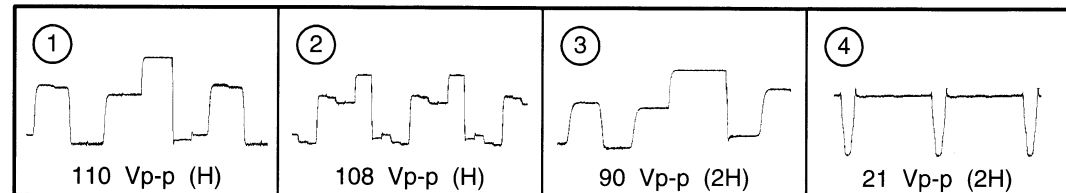


A BOARD

IC		Q305	E-1
IC1	F-21	Q306	C-5
IC2	E-2	Q330	D-6
IC3	F-2	Q331	D-18
IC4	G-2	Q332	C-6
IC201	A-14	Q1002	C-3
IC202	C-16	DIODE	
IC203	D-8	D2	G-3
IC301	C-19	D10	F-10
IC302	D-4	D11	F-10
IC303	D-21	D12	F-4
TRANSISTOR		D101	F-9
Q1	D-21	D201	A-11
Q4	E-22	D202	E-13
Q5	E-23	D203	A-11
Q10	E-2	D204	B-16
Q11	E-3	D205	B-16
Q15	D-2	D206	C-9
Q16	D-2	D207	C-9
Q17	D-22	D208	A-11
Q18	D-23	D209	B-11
Q80	A-23	D210	A-11
Q81	A-22	D211	B-11
Q110	F-14	D212	B-16
Q111	E-14	D213	B-16
Q112	E-14	D214	D-9
Q113	A-10	D215	D-9
Q114	A-14	D216	G-14
Q120	F-7	D217	G-14
Q121	F-5	D218	G-14
Q122	F-6	D220	G-14
Q124	F-7	D221	D-14
Q130	F-7	D222	D-14
Q201	B-10	D223	D-14
Q202	B-13	D224	D-14
Q203	D-15	D225	D-14
Q204	D-15	D226	D-14
Q205	D-7	D227	B14
Q206	C-8	D251	B-15
Q207	C-8	D320	C-5
Q300	E-4	D370	C-21
Q304	G-5		



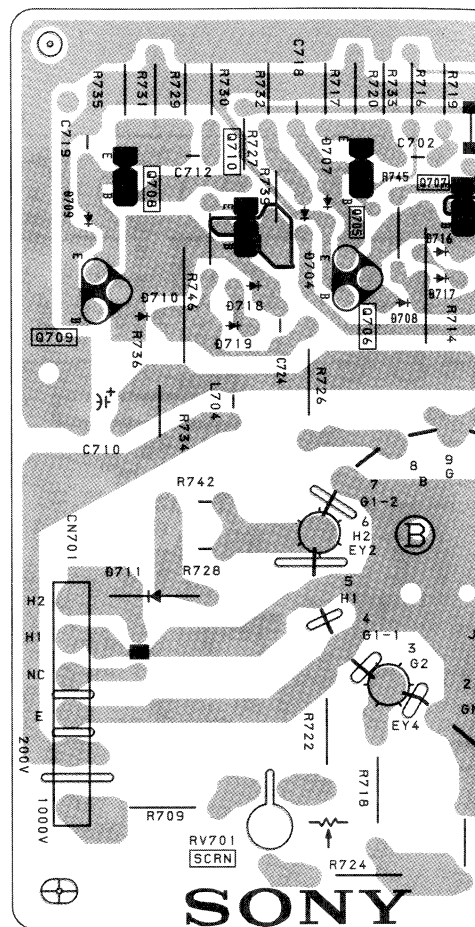
WAVEFORMS C BOARD



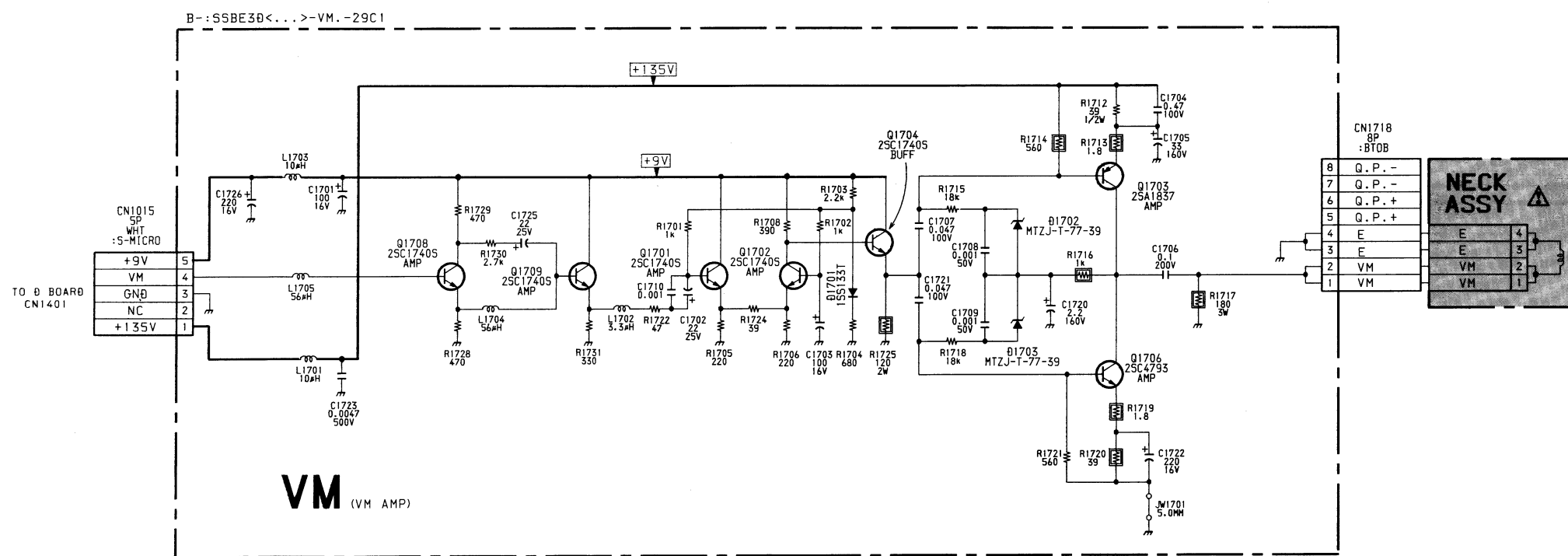
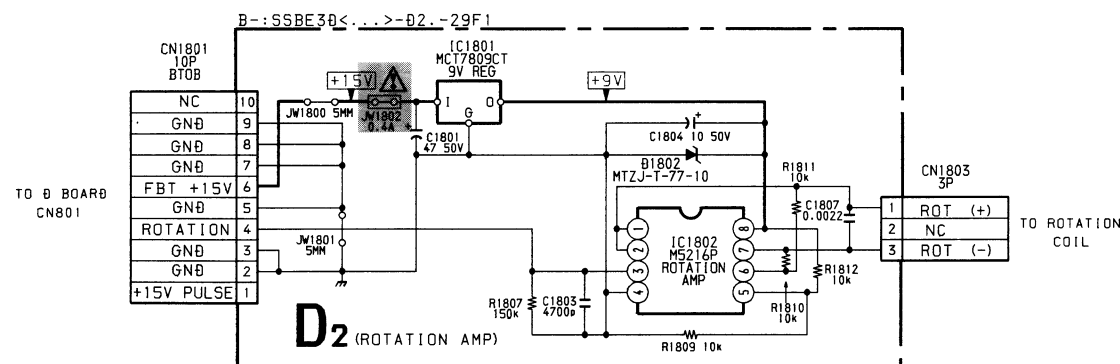
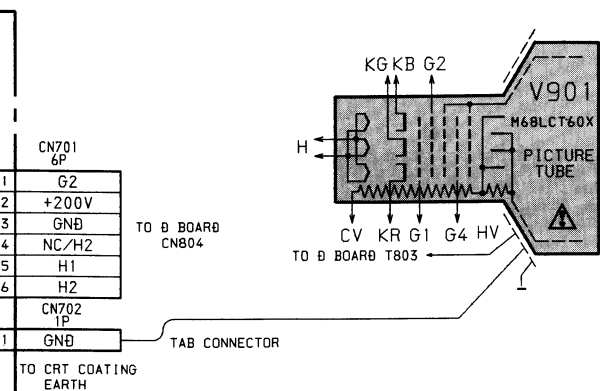
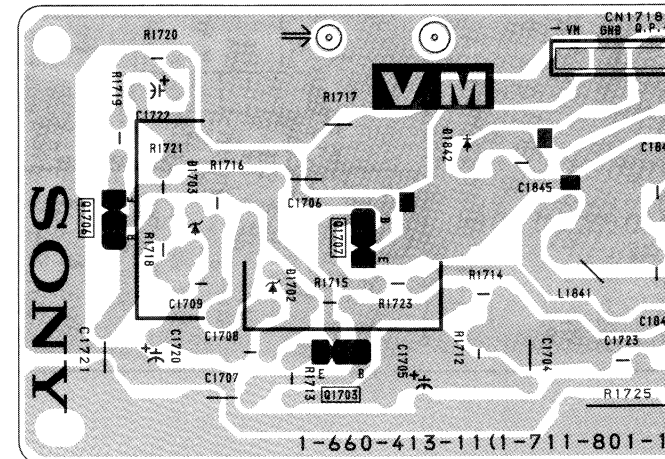
C [R, G, B OUT]

VM [V]

C Board



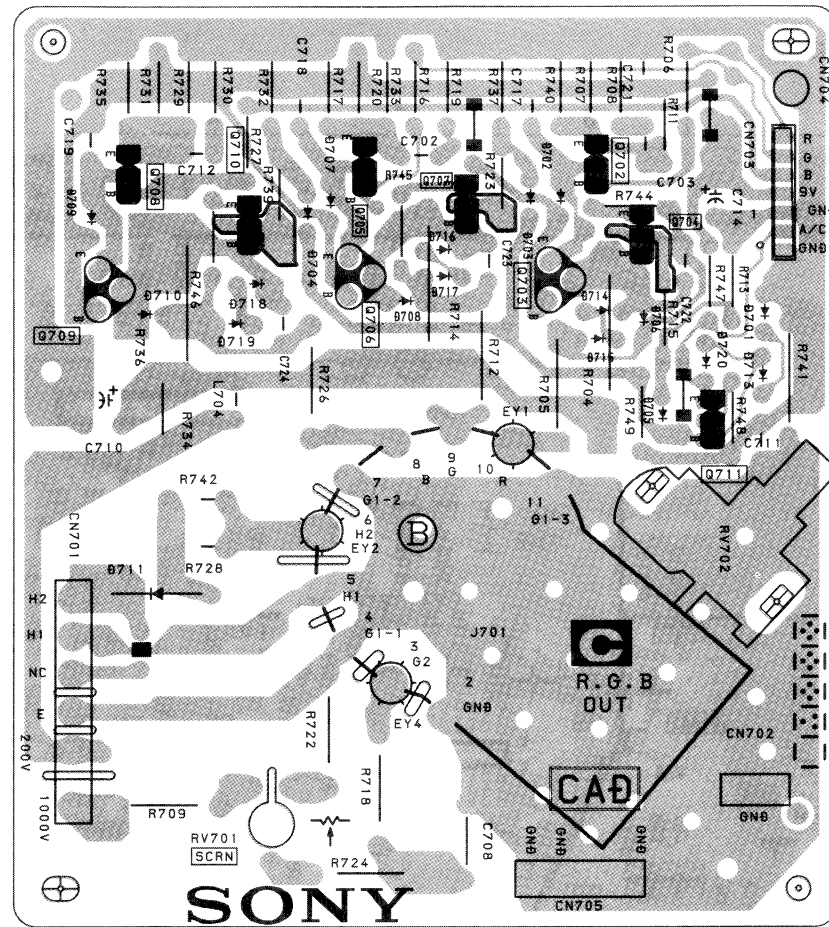
VM Board



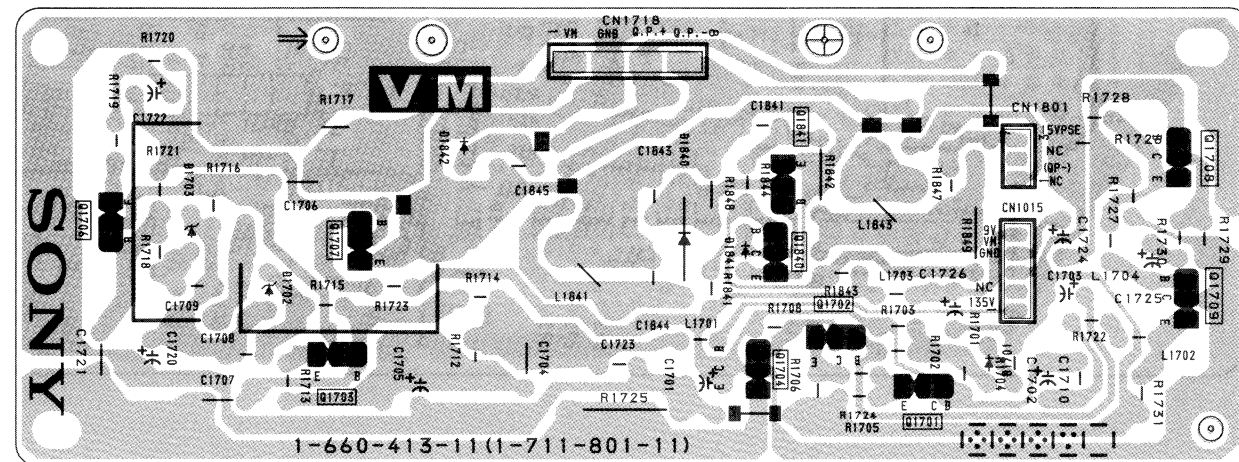
[R, G, B OUT]

[VM AMP]

C Board

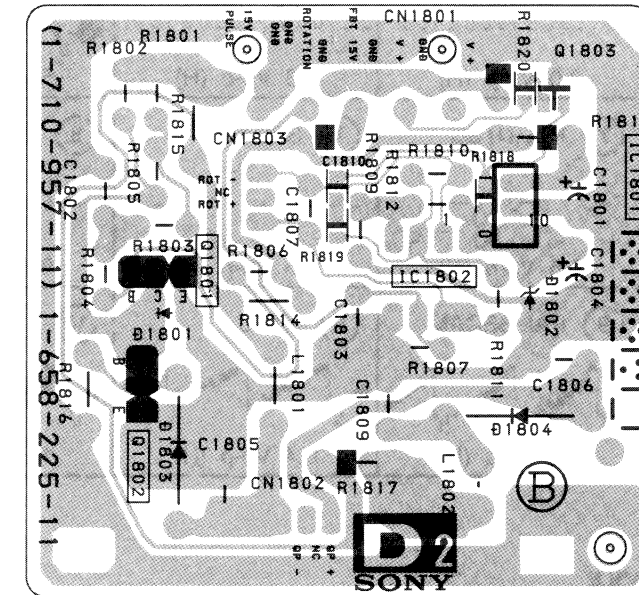


VM Board



[ROTATION AMP]

D2 Board



C BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q702	2.0	11.4	1.4
Q703	12.0	168.3	11.4
Q704	168.3	6.0	163.5
Q705	1.7	11.4	1.2
Q706	12.0	178.8	11.4
Q707	178.2	6.2	173.8
Q708	2.0	11.4	1.4
Q709	12.0	168.3	11.4
Q710	168.0	6.4	160.0

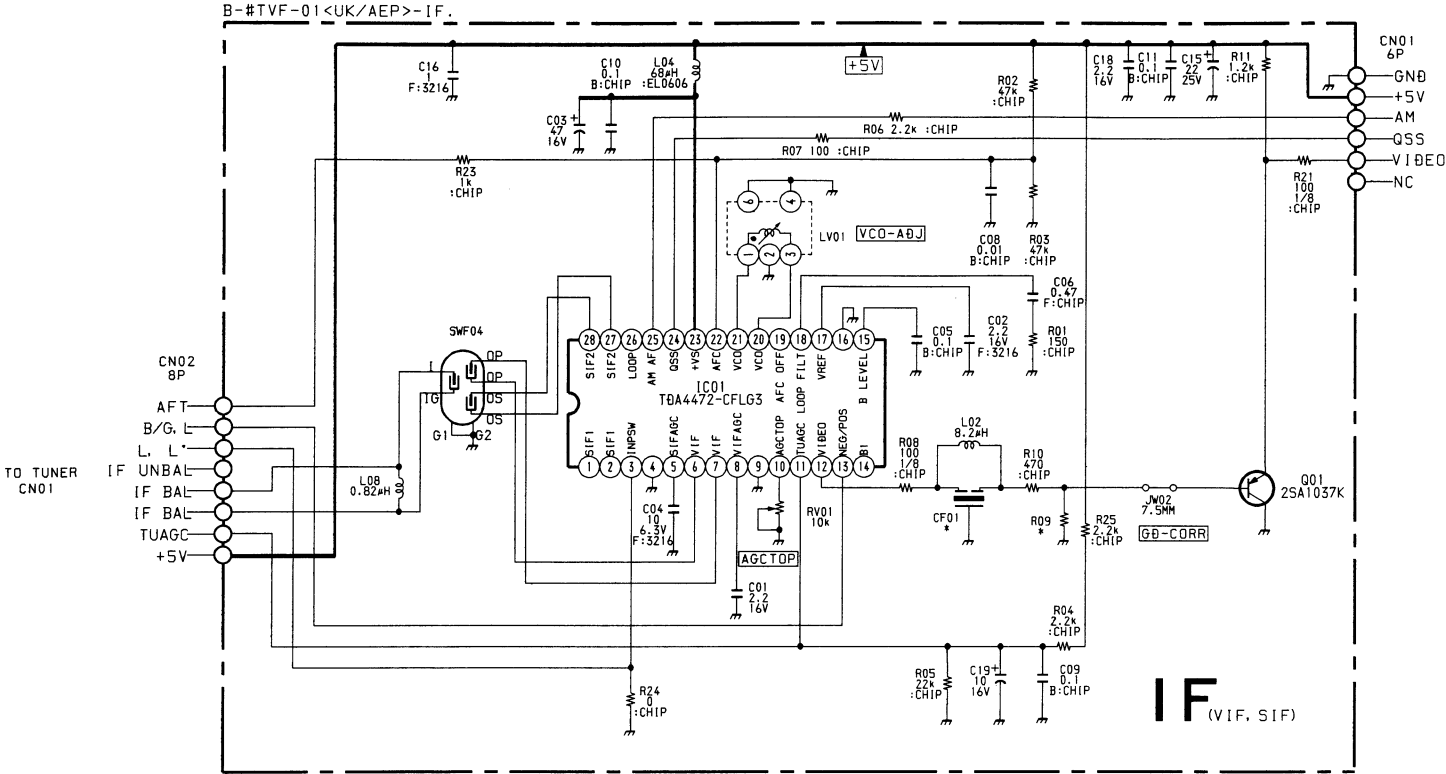
VM BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q1701	2.5	8.8	1.8
Q1702	2.5	5.5	1.8
Q1703	134.3	71.8	134.8
Q1704	5.5	8.8	4.8
Q1706	1.0	71.8	0.4
Q1707	0.7	-	-
Q1708	2.9	6.6	2.2
Q1709	2.2	8.8	1.5
Q1840	0.6	-	-

D2 BOARD IC VOLTAGE TABLE

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC1802	1-2	2.8
	3	3.0
	5-6	4.4
	7	6.2
	8	9.0

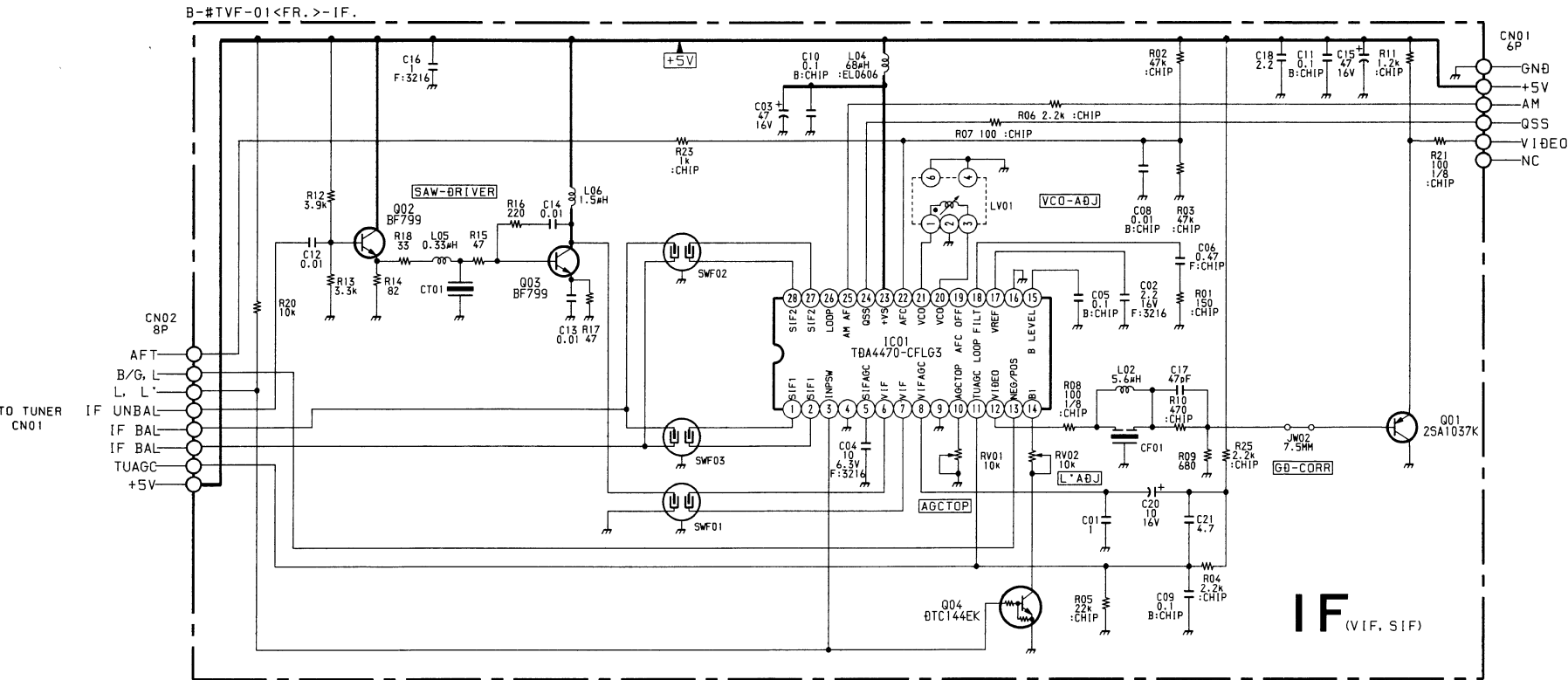
TUVIF (AEP) (KV-29X1A, 29X1D, 29X1E, 29X1K, 29X1L and 29X1R ONLY)
TUVIF (UK) (KV-29X1U ONLY)



IF Board

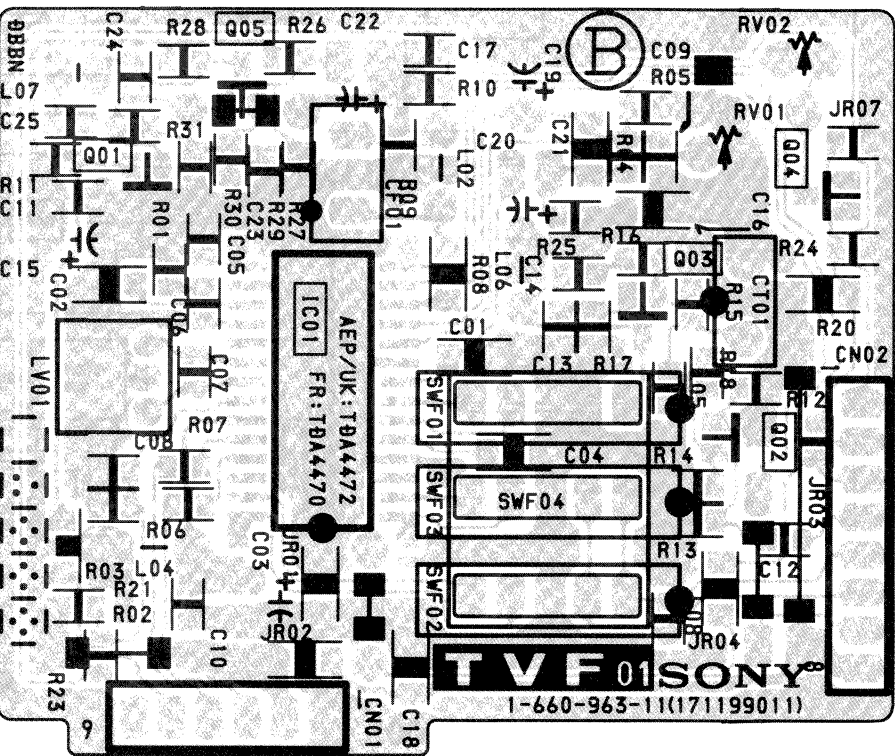
Model	29X1A	29X1D	29X1E	29X1K	29X1L	29X1R	29X1U
Ref. No.							
CF01	5.5MHz	5.5MHz	5.5MHz	5.5MHz	5.5MHz	5.5MHz	6.0MHz
R09	680MF	680MF	680MF	680MF	680MF	680MF	1K

TUVIF (FR) (KV-29X1B ONLY)

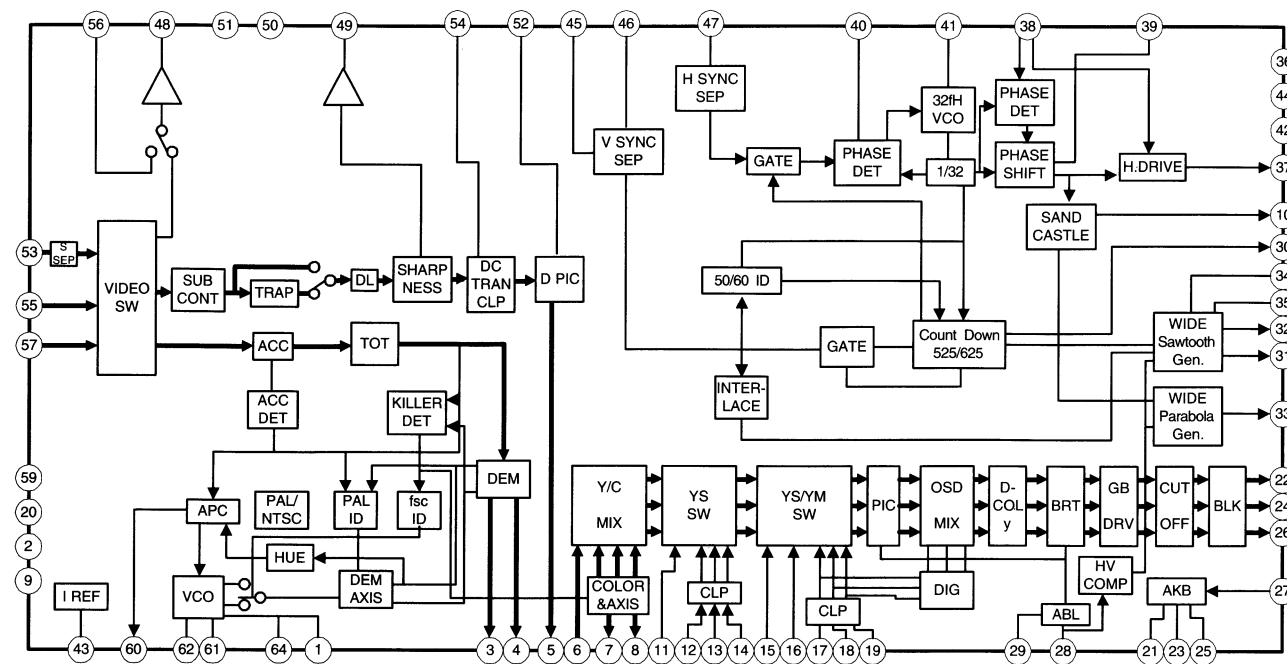


IF [VIF, SIF]

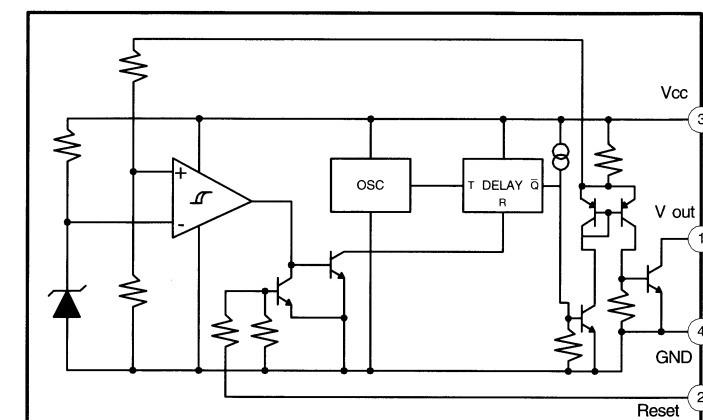
IF Board



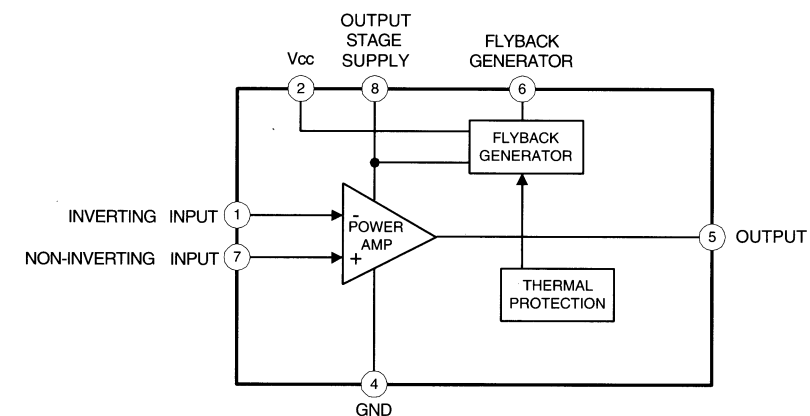
A BOARD IC301 CXA2000Q-TL



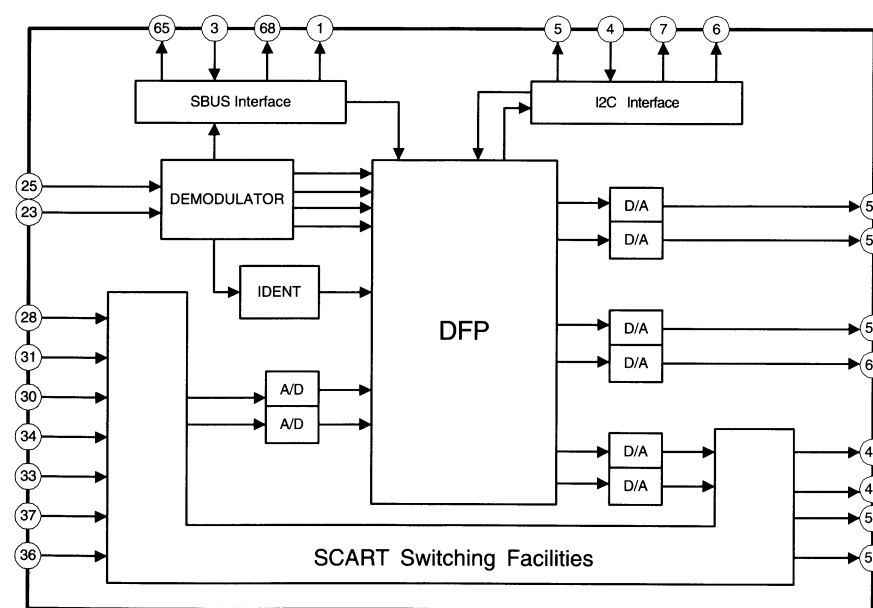
A BOARD IC4 PST593C



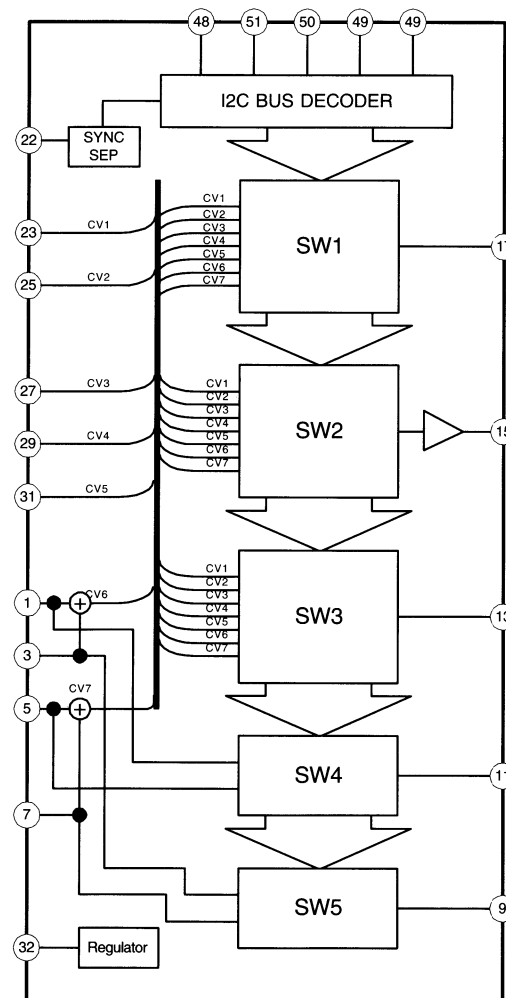
D BOARD IC500 STV9379



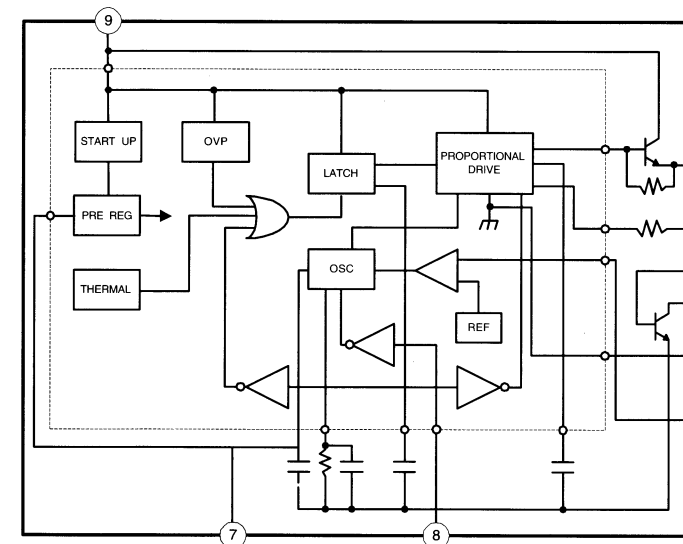
A BOARD IC202 MSP3410/MSP3400



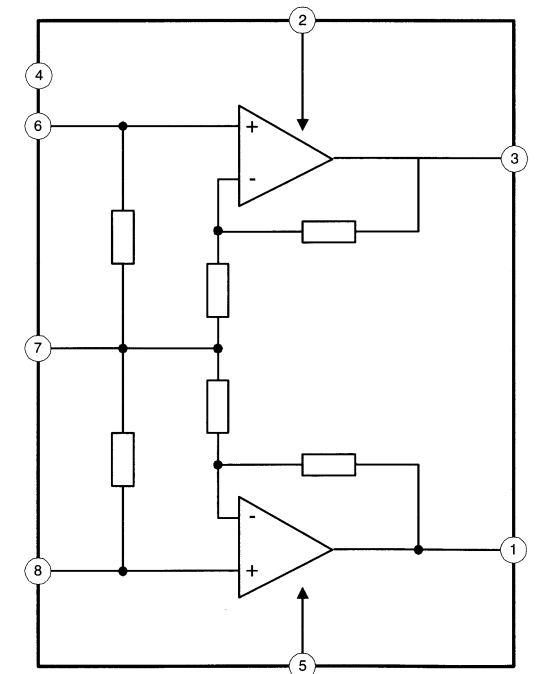
A BOARD IC201 CXA2040Q



D BOARD IC600 STR-S6708

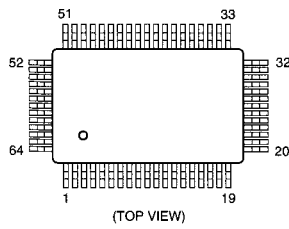


D BOARD IC1200 TDA7264

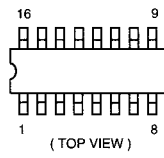


SEMICONDUCTORS

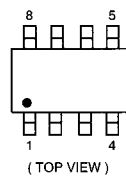
CXA2000Q-TL



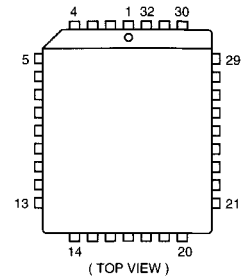
MC14052BDR2



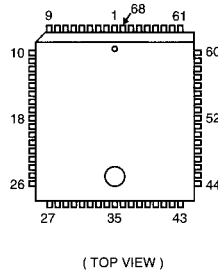
ST24E32M6TR



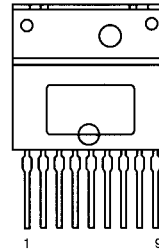
TMS27PC010A-15FML



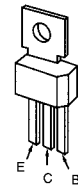
MSP3400C-PS
MSP3410-15



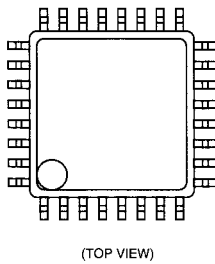
STR-S6708



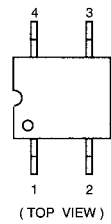
BF871-127



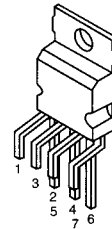
CXA2040Q-T4



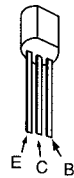
PST593C-MMP-4P



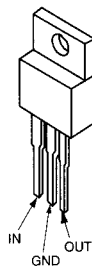
STV9379



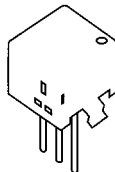
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JA101TP-Q
2SA733-K
2SA933AS
2SA933S
2SA1091-O
2SC3502-F
2SC2808STP-R



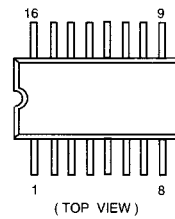
L4941BV



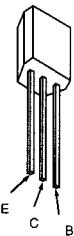
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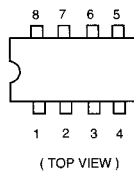
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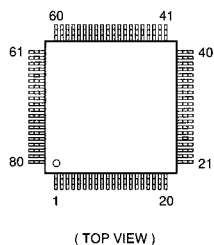
DTA144ES
DTC114ES
DTC143TS
DTC144ES
2SC1740S-RT



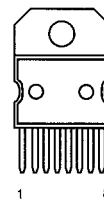
LM393P
M5216P
TDA2822M
μPC393C



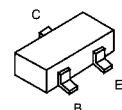
SDA5250M-GEG



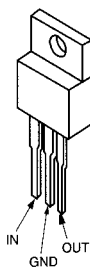
TDA7264



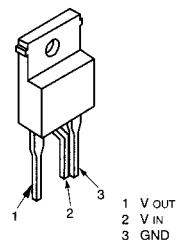
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2SA1162-G
2SC2412K



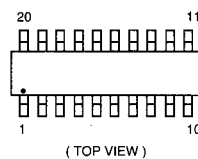
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LM2940CT
LM2940T-9.0
MCT7809CT
μPC2405HF



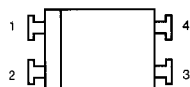
SE135N



TDA8395T



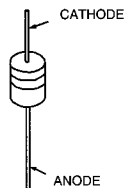
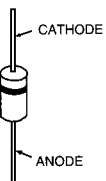
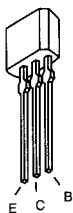
TLP721(D4-)



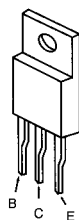
AU-01Z-V1 GP08D
EG-1Z-V1 RGP02
EGP20G RGP10GPKG23
EL1Z RGP15GPKG23
EM1-V1 RU3YX
EU-1-V1 RU4AM-T3
EU2-V1 RU4DS
FML-G12S

MTZJ-3.6A RD3.9ESB2
MTZJ-3.9B RD5.1ESB2
MTZJ-5.1B RD5.6ESB2
MTZJ-5.6B RD6.2ESB2
MTZJ-6.2B RD6.8ESB2
MTZJ-6.8B RD7.5ESB2
MTZJ-7.5C RD10ESB2
MTZJ-9.1 RD39ES-B2
MTZJ-T-77-9.1A
MTZJ-10 1SS133T-77
MTZJ-39

2SC2785-HFE

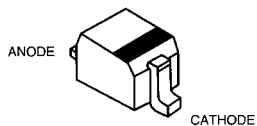
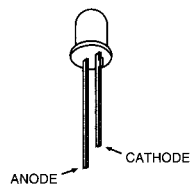


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2SA1837
2SC3852A

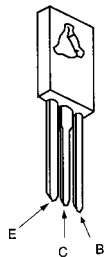


BAS216 MA8330
DTZ6.8C 1SS355
DTZ9.1 Udz-TE-17-5.6B
DTZ33B Udz-TE-17-9.1B

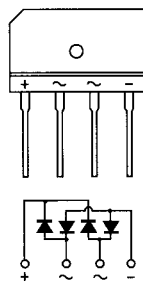
SLA-570KT3F



2SC2688-LK



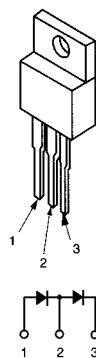
D4SB60L



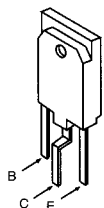
2SC4793



FMS-3FU




2SC4927-01




EXPLODED VIEWS

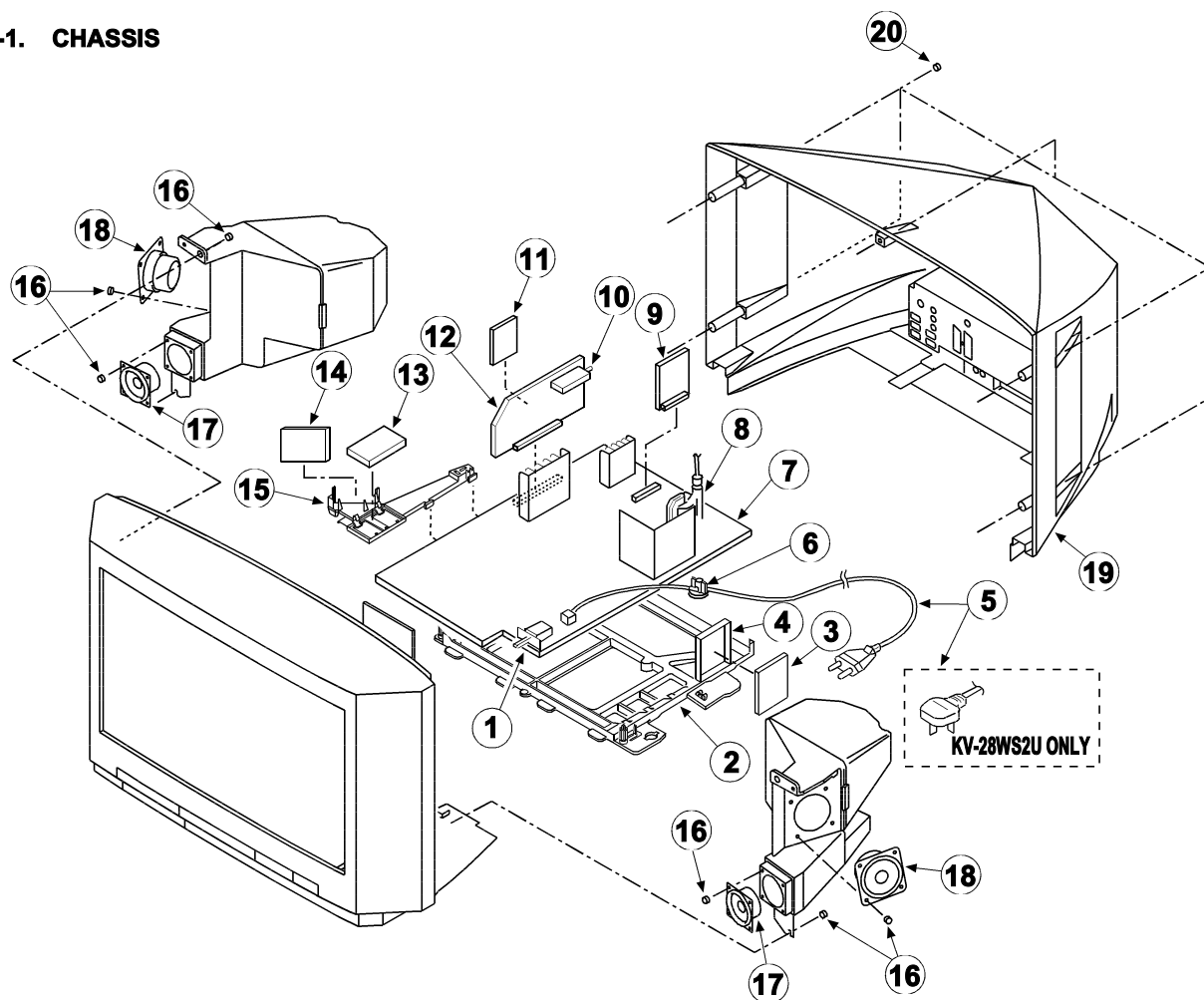
NOTE :






- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked  are critical for safety. Replace only with the part number specified.

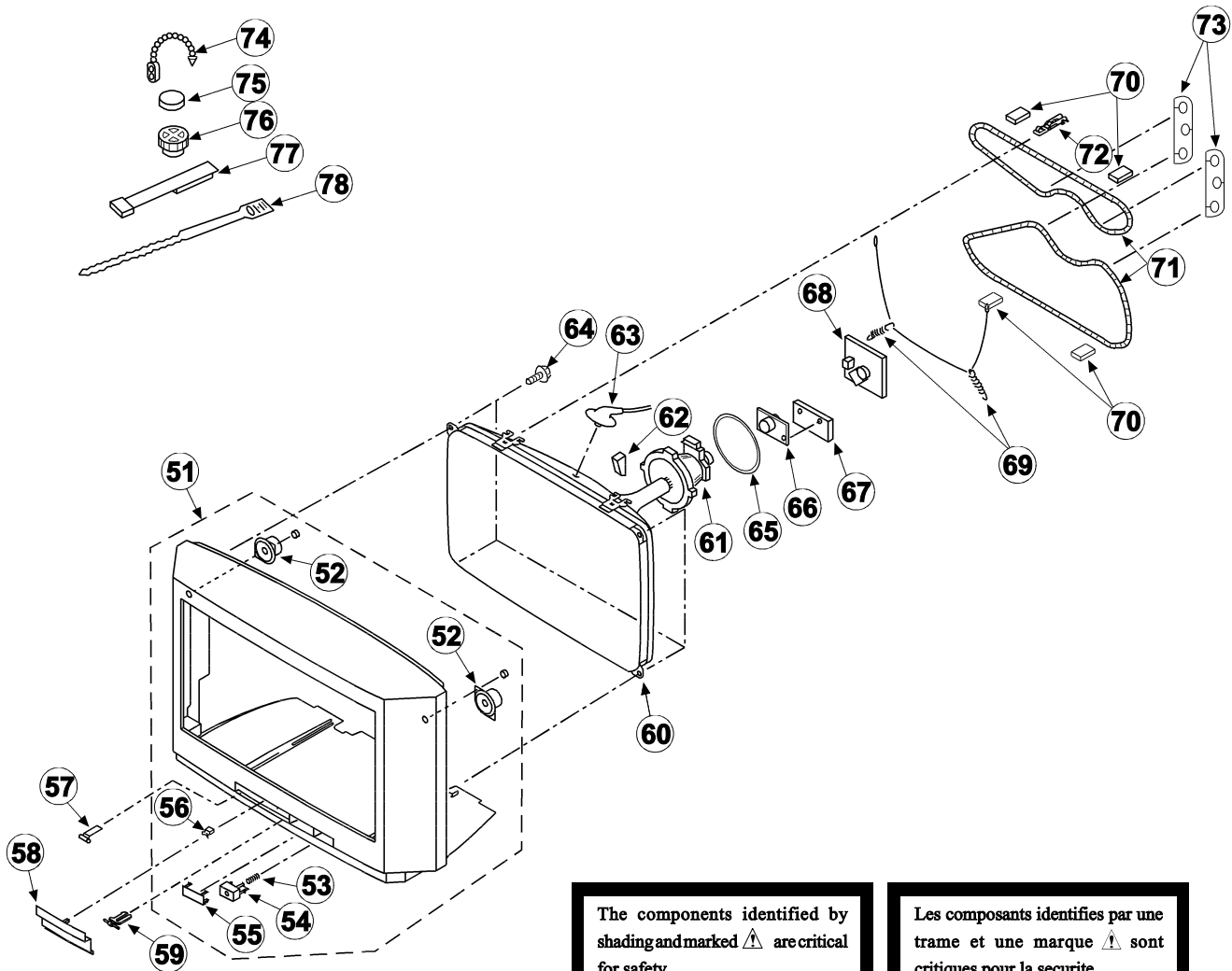
Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.


6-1. CHASSIS




REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	 1-571-433-21	SWITCH, PUSH (AC POWER)		11	*A-1630-529-A	A1 BOARD, COMPLETE	
2	*4-203-315-01	BRACKET, MAIN		12	*A-1632-516-A	A BOARD, COMPLETE (KV-28WS2B)	
3	*A-1640-235-A	D3 BOARD, COMPLETE			*A-1632-471-A	A BOARD, COMPLETE (KV-28WS2D)	
4	*4-203-404-01	BRACKET, D3			*A-1632-517-A	A BOARD, COMPLETE (KV-28WS2E)	
5	 1-751-680-11	CORD, POWER (WITH NOISE FILTER)			*A-1632-529-A	A BOARD, COMPLETE (KV-28WS2K)	
		2.5A/250V (KV-28WS2B/28WS2D/28WS2E)			*A-1632-530-A	A BOARD, COMPLETE (KV-28WS2R)	
	 1-690-270-21	CORD, POWER (WITH CONNECTOR)			*A-1632-515-A	A BOARD, COMPLETE (KV-28WS2U)	
		2.5A/250V (KV-28WS2K/28WS2R)		13	*A-1651-088-A	J BOARD, COMPLETE	
	 1-776-204-11	CORD, POWER (FILTER)		14	*A-1649-018-A	K1 BOARD, COMPLETE	
		3.0A/250V (KV-28WS2U)		15	*4-203-537-01	BRACKET, J-K-T	
6	*4-202-531-01	AC CORD LOCK (SC)		16	4-039-355-11	SCREW (4X12), (+) BV TAPPING	
7	*A-1642-190-A	D BOARD, COMPLETE		17	1-505-154-11	SPEAKER (6.5CM)	
8	 1-453-169-11	TRANSFORMER ASSY, FLYBACK (UX-1604A2)		18	1-505-155-11	SPEAKER (10CM)	
9	*A-1640-214-A	D2 BOARD, COMPLETE		19	4-203-543-01	COVER, REAR	
10	1-693-340-11	TUNER/VIF (FR) (KV-28WS2B)		20	4-039-358-01	SCREW (4X16), (+) BV TAPPING	
	1-693-338-11	TUNER/VIF (AEP)					
		(KV-28WS2D/28WS2E/28WS2K/28WS2R)					
	1-693-339-11	TUNER/VIF (UK) (KV-28WS2U)					

. PICTURE TUBE








The components identified by shading and marked  are critical for safety.

Replace only with the part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	A-1603-045-A	BEZNET ASSY	52-56	67	*A-1644-070-A	VM BOARD, COMPLETE	
52	1-504-418-21	SPEAKER (5CM)		68	*A-1638-079-A	C BOARD, COMPLETE	
53	4-202-964-01	SPRING		69	4-369-318-31	SPRING, TENSION	
54	4-203-540-01	BUTTON, POWER		70	*4-203-390-01	CUSHION, DGC	
55	4-203-539-01	WINDOW ORNAMENTAL		71	 1-411-893-11	COIL DEGAUSSING	
56	4-047-464-01	CATCHER PUSH		72	4-202-463-01	CLIP, DGC (25°)	
57	4-045-250-01	DAMPER		73	*4-050-252-01	SPACER, DGC	
58	4-203-542-01	DOOR, CONTROL		74	4-308-870-00	CLIP, LEAD WIRE	
59	4-202-555-01	SHAFT, DOOR		75	1-452-032-00	MAGNET, DISK; 10MM Ø	
60	 8-737-763-05	PICTURE TUBE (SD-284T) (W66LGY011X)		76	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
61	 8-451-434-21	DEFLECTION YOKE (Y28GIA-B)		77	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
62	3-704-495-01	SPACER, DY		78	3-701-007-00	BAND, BINDING	
63	 1-540-006-22	CAP ASSY, HIGH-VOLTAGE					
64	4-036-188-01	SCREW (M), PT					
65	1-452-724-22	COIL, NA ROTATION (RT-165)					
66	 8-453-005-61	NECK ASSY PICTURE TUBE (NA297-M6)					

ELECTRICAL PARTS LIST

The components identified by shading and marked Δ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

- All variable and adjustable resistors

MF : mF, PF : mmF

MMH : mH, μ H : μ H

RESISTORS

- All resistors are in ohms
- F : nonflammable

A1

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1630-529-A A1 BOARD, COMPLETE *****				< DIODE >			
	< CAPACITOR >			D1201	8-719-988-62	DIODE 1S8355	
	< IC >			< IC >			
C1201	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V	IC1201	8-759-377-62	IC DSP56004-FJ66R2	
C1202	1-163-038-00	CERAMIC CHIP 0.1MF	25V	IC1202	8-759-349-93	IC KM62256CLG-7	
C1203	1-163-038-00	CERAMIC CHIP 0.1MF	25V	IC1203	8-759-384-64	IC TDA1387T/N1/T3	
C1204	1-163-038-00	CERAMIC CHIP 0.1MF	25V	IC1204	8-759-384-64	IC TDA1387T/N1/T3	
C1205	1-163-038-00	CERAMIC CHIP 0.1MF	25V	IC1205	8-759-387-76	IC TL072CDR	
C1206	1-163-038-00	CERAMIC CHIP 0.1MF	25V	IC1206	8-759-387-76	IC TL072CDR	
C1207	1-163-038-00	CERAMIC CHIP 0.1MF	25V	IC1207	8-759-991-41	IC L78L05ACZ	
C1208	1-163-038-00	CERAMIC CHIP 0.1MF	25V	< COIL >			
C1209	1-163-038-00	CERAMIC CHIP 0.1MF	25V	L1204	1-410-989-11	INDUCTOR CHIP 0.47UH	
C1210	1-163-038-00	CERAMIC CHIP 0.1MF	25V	L1205	1-410-989-11	INDUCTOR CHIP 0.47UH	
C1211	1-163-038-00	CERAMIC CHIP 0.1MF	25V	L1206	1-410-989-11	INDUCTOR CHIP 0.47UH	
C1212	1-126-933-11	ELECT 100MF	20% 16V	L1207	1-410-989-11	INDUCTOR CHIP 0.47UH	
C1215	1-126-967-11	ELECT 47MF	20% 16V	L1208	1-410-989-11	INDUCTOR CHIP 0.47UH	
C1216	1-163-038-00	CERAMIC CHIP 0.1MF	25V	L1209	1-410-989-11	INDUCTOR CHIP 0.47UH	
C1217	1-163-038-00	CERAMIC CHIP 0.1MF	25V	L1210	1-410-989-11	INDUCTOR CHIP 0.47UH	
C1218	1-126-964-11	ELECT 10MF	20% 50V	L1211	1-410-989-11	INDUCTOR CHIP 0.47UH	
C1219	1-126-967-11	ELECT 47MF	20% 16V	L1212	1-410-989-11	INDUCTOR CHIP 0.47UH	
C1220	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V	L1213	1-410-989-11	INDUCTOR CHIP 0.47UH	
C1221	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V	L1220	1-410-989-11	INDUCTOR CHIP 0.47UH	
C1222	1-163-038-00	CERAMIC CHIP 0.1MF	25V	L1221	1-410-989-11	INDUCTOR CHIP 0.47UH	
C1223	1-126-967-11	ELECT 47MF	20% 16V	< TRANSISTOR >			
C1224	1-126-967-11	ELECT 47MF	20% 16V	Q1201	8-729-902-99	TRANSISTOR DTC114TK	
C1225	1-163-038-00	CERAMIC CHIP 0.1MF	25V	< RESISTOR >			
C1226	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R1202	1-216-025-00	METAL GLAZE 100 5% 1/10W	
C1227	1-126-964-11	ELECT 10MF	20% 50V	R1204	1-216-025-00	METAL GLAZE 100 5% 1/10W	
C1228	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V	R1205	1-216-025-00	METAL GLAZE 100 5% 1/10W	
C1229	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V	R1206	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
C1230	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R1207	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
C1231	1-126-967-11	ELECT 47MF	20% 16V	R1208	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
C1232	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R1209	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
C1233	1-126-967-11	ELECT 47MF	20% 16V	R1210	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
C1236	1-126-967-11	ELECT 47MF	20% 16V	R1211	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
C1237	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R1212	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
C1238	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R1213	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
< CONNECTOR >				R1214	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
CN1202	1-766-929-11	CONNECTOR, BOARD TO BOARD 8P		R1215	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
CN1203	1-766-929-11	CONNECTOR, BOARD TO BOARD 8P		R1220	1-216-001-00	METAL GLAZE 10 5% 1/10W	
CN1204	*1-564-519-11	PLUG, CONNECTOR 4P					

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R1221	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1222	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1223	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	
R1224	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1225	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1226	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1227	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	
R1228	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1229	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R1230	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	
R1231	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1232	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1233	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1234	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	
R1235	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1236	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1237	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1238	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1239	1-216-025-00	METAL GLAZE	100	5%	1/10W	

	*A-1632-516-A	A BOARD, COMPLETE (KV-28WS2B)				

	*A-1632-471-A	A BOARD, COMPLETE (KV-28WS2D)				

	*A-1632-517-A	A BOARD, COMPLETE (KV-28WS2E)				

	*A-1632-529-A	A BOARD, COMPLETE (KV-28WS2K)				

	*A-1632-530-A	A BOARD, COMPLETE (KV-28WS2R)				

	*A-1632-515-A	A BOARD, COMPLETE (KV-28WS2U)				

	1-750-797-11	SOCKET, PLCC				
	< CAPACITOR >					
C1	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C2	1-126-965-11	ELECT	22MF	20%	50V	
C3	1-163-104-00	CERAMIC CHIP	30PF	5%	50V	
C4	1-163-104-00	CERAMIC CHIP	30PF	5%	50V	
C8	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C10	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C11	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C14	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C15	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C18	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C20	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C21	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C22	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C43	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C45	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C80	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C81	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C82	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	
C90	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C101	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C102	1-126-934-11	ELECT	220MF	20%	16V	
C103	1-126-965-11	ELECT	22MF	20%	50V	
C104	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C110	1-126-967-11	ELECT	47MF	20%	16V	
C112	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	

REF.NO.	PART NO.	DESCRIPTION	REMARK		
C113	1-126-967-11	ELECT 47MF	20%	16V	
C115	1-102-112-00	CERAMIC 330PF	10%	50V	
					(KV-28WS2B)
C120	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C121	1-163-113-00	CERAMIC CHIP 68PF	5%	50V	
C122	1-163-137-00	CERAMIC CHIP 680PF	5%	50V	
C123	1-163-113-00	CERAMIC CHIP 68PF	5%	50V	
C124	1-137-399-11	FILM 0.1MF	5%	50V	
C201	1-163-139-00	CERAMIC CHIP 820PF	10%	50V	
C202	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C203	1-126-933-11	ELECT 100MF	20%	16V	
C204	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
C205	1-126-965-11	ELECT 22MF	20%	50V	
C206	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	
C207	1-164-505-11	CERAMIC CHIP 2.2MF		16V	
C208	1-164-505-11	CERAMIC CHIP 2.2MF		16V	
C209	1-164-505-11	CERAMIC CHIP 2.2MF		16V	
C210	1-216-295-00	METAL GLAZE 0 5%	1/10W		
C211	1-164-505-11	CERAMIC CHIP 2.2MF		16V	
C212	1-164-346-11	CERAMIC CHIP 1MF		16V	
C213	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	
C214	1-164-346-11	CERAMIC CHIP 1MF		16V	
C215	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	
C216	1-126-967-11	ELECT 47MF	20%	16V	
C217	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C218	1-126-967-11	ELECT 47MF	20%	16V	
C219	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C220	1-164-505-11	CERAMIC CHIP 2.2MF		16V	
C221	1-164-505-11	CERAMIC CHIP 2.2MF		16V	
C222	1-164-346-11	CERAMIC CHIP 1MF		16V	
C223	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	
C224	1-164-346-11	CERAMIC CHIP 1MF		16V	
C225	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	
C226	1-126-967-11	ELECT 47MF	20%	16V	
C227	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C228	1-126-967-11	ELECT 47MF	20%	16V	
C229	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C230	1-216-295-00	METAL GLAZE 0 5%	1/10W		
C231	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
C232	1-126-967-11	ELECT 47MF	20%	16V	
C251	1-163-087-00	CERAMIC CHIP 4PF	0.25PF	50V	
C252	1-163-087-00	CERAMIC CHIP 4PF	0.25PF	50V	
C253	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C254	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	
C255	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C256	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
C257	1-126-965-11	ELECT 22MF	20%	50V	
C258	1-126-964-11	ELECT 10MF	20%	50V	
C259	1-164-336-11	CERAMIC CHIP 0.33MF		25V	
C260	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
C261	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	
C262	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	
C263	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
C264	1-126-962-11	ELECT 3.3MF	20%	50V	
C265	1-126-964-11	ELECT 10MF	20%	50V	
C266	1-126-964-11	ELECT 10MF	20%	50V	
C267	1-126-965-11	ELECT 22MF	20%	50V	
C268	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
C269	1-163-131-00	CERAMIC CHIP 390PF	5%	50V	
C270	1-163-131-00	CERAMIC CHIP 390PF	5%	50V	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C271	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C354	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C272	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C355	1-126-965-11	ELECT 22MF	20% 50V
C273	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C356	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C274	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C357	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C275	1-164-346-11	CERAMIC CHIP 1MF	16V	C358	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C276	1-164-346-11	CERAMIC CHIP 1MF	16V	C359	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C277	1-164-346-11	CERAMIC CHIP 1MF	16V	C360	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C278	1-164-346-11	CERAMIC CHIP 1MF	16V	C370	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C279	1-126-965-11	ELECT 22MF	20% 50V		(KV-28WS2B/28WS2D/28WS2E/28WS2K/28WS2R)		
C280	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C371	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C281	1-126-965-11	ELECT 22MF	20% 50V	C372	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C282	1-163-038-00	CERAMIC CHIP 0.1MF	25V		(KV-28WS2B/28WS2D/28WS2E/28WS2K/28WS2R)		
C300	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C373	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C301	1-163-038-00	CERAMIC CHIP 0.1MF	25V		(KV-28WS2B/28WS2D/28WS2E/28WS2K/28WS2R)		
C302	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1001	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C303	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1002	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C304	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1010	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C305	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1013	1-126-965-11	ELECT 22MF	20% 50V
C306	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1014	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C307	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1015	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C308	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1020	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C309	1-164-346-11	CERAMIC CHIP 1MF	16V	< FILTER >			
C310	1-164-346-11	CERAMIC CHIP 1MF	16V	CF120	1-409-327-00	TRAP, CERAMIC (6.5MHz) (KV-28WS2B)	
C311	1-164-346-11	CERAMIC CHIP 1MF	16V	< CONNECTOR >			
C312	1-164-505-11	CERAMIC CHIP 2.2MF	16V	CN1	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
C313	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	CN2	*1-568-880-51	PIN, CONNECTOR 5P	
C315	1-216-295-00	METAL GLAZE 0	5% 1/10W	CN4	1-568-878-51	PIN, CONNECTOR 3P	
C317	1-163-038-00	CERAMIC CHIP 0.1MF	25V	CN201	1-766-296-11	CONNECTOR, DUAL SCART	
C319	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	CN202	1-766-928-11	CONNECTOR, BOARD TO BOARD 8P	
C320	1-126-965-11	ELECT 22MF	20% 50V	CN203	1-766-928-11	CONNECTOR, BOARD TO BOARD 8P	
C321	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	CN301	*1-568-882-51	PIN, CONNECTOR 7P	
C322	1-163-037-11	CERAMIC CHIP 0.22MF	10% 50V	< DIODE >			
C323	1-163-037-11	CERAMIC CHIP 0.22MF	10% 50V	D2	8-719-988-62	DIODE 1S8355	
C324	1-163-037-11	CERAMIC CHIP 0.22MF	10% 50V	D10	8-719-158-15	DIODE RD5.68-B	
C325	1-164-346-11	CERAMIC CHIP 1MF	16V	D11	8-719-158-15	DIODE RD5.68-B	
C326	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	D12	8-719-158-15	DIODE RD5.68-B	
C327	1-137-374-11	FILM 0.047MF	5% 50V	D101	8-719-977-81	DIODE DTZ33B	
C328	1-126-964-11	ELECT 10MF	20% 50V	D201	8-719-977-22	DIODE DTZ9.1	
C329	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D202	8-719-977-22	DIODE DTZ9.1	
C330	1-130-777-00	FILM 0.1MF	5% 63V	D203	8-719-977-22	DIODE DTZ9.1	
C331	1-137-581-11	FILM 0.1MF	5% 100V	D204	8-719-977-22	DIODE DTZ9.1	
C332	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D205	8-719-977-22	DIODE DTZ9.1	
C333	1-126-933-11	ELECT 100MF	20% 16V	D206	8-719-977-22	DIODE DTZ9.1	
C334	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D207	8-719-977-22	DIODE DTZ9.1	
C335	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D208	8-719-977-22	DIODE DTZ9.1	
C336	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	D209	8-719-977-22	DIODE DTZ9.1	
C337	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	D210	8-719-977-22	DIODE DTZ9.1	
C338	1-164-346-11	CERAMIC CHIP 1MF	16V	D211	8-719-977-22	DIODE DTZ9.1	
C339	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D212	8-719-977-22	DIODE DTZ9.1	
C340	1-126-933-11	ELECT 100MF	20% 16V	D213	8-719-977-22	DIODE DTZ9.1	
C341	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D214	8-719-977-22	DIODE DTZ9.1	
C342	1-164-346-11	CERAMIC CHIP 1MF	16V	D215	8-719-977-22	DIODE DTZ9.1	
C343	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	D216	8-719-158-15	DIODE RD5.68-B	
C344	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	D217	8-719-158-15	DIODE RD5.68-B	
C347	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D218	8-719-158-15	DIODE RD5.68-B	
C348	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D220	8-719-988-62	DIODE 1S8355	
C350	1-126-964-11	ELECT 10MF	20% 50V	D221	8-719-988-62	DIODE 1S8355	
C351	1-164-505-11	CERAMIC CHIP 2.2MF	16V				
C352	1-164-005-11	CERAMIC CHIP 0.47MF	25V				
C353	1-164-505-11	CERAMIC CHIP 2.2MF	16V				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D222	8-719-977-22	DIODE DTZ9.1		Q130	8-729-216-22	TRANSISTOR 2SA1162-G (KV-28WS2B)	
D223	8-719-977-22	DIODE DTZ9.1		Q201	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D224	8-719-977-22	DIODE DTZ9.1		Q202	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D225	8-719-977-22	DIODE DTZ9.1		Q205	8-729-901-01	TRANSISTOR DTC144EK	
D226	8-719-977-22	DIODE DTZ9.1		Q206	8-729-216-22	TRANSISTOR 2SA1162-G	
D227	8-719-977-13	DIODE DTZ-6.8C		Q207	8-729-216-22	TRANSISTOR 2SA1162-G	
D251	8-719-047-16	DIODE BAS216		Q300	8-729-901-01	TRANSISTOR DTC144EK	
D320	8-719-977-22	DIODE DTZ9.1		Q304	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D370	8-719-047-16	DIODE BAS216	(KV-28WS2B/28WS2D/28WS2E/28WS2K/28WS2R)	Q305	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q306	8-729-901-01	TRANSISTOR DTC144EK	
D1010	8-719-036-58	DIODE MA3030-B(TX)		Q330	8-729-216-22	TRANSISTOR 2SA1162-G	
	< LINE FILTER >			Q331	8-729-920-74	TRANSISTOR 2SC2412K-QR	
FL101	1-236-071-11	ENCAPSULATED COMPONENT		Q332	8-729-920-74	TRANSISTOR 2SC2412K-QR	
FL201	1-236-071-11	ENCAPSULATED COMPONENT		Q1001	8-729-901-01	TRANSISTOR DTC144EK	
FL202	1-236-071-11	ENCAPSULATED COMPONENT		Q1002	8-729-216-22	TRANSISTOR 2SA1162-G	
FL203	1-236-071-11	ENCAPSULATED COMPONENT			< RESISTOR >		
FL1001	1-236-071-11	ENCAPSULATED COMPONENT		JR101	1-216-295-00	METAL GLAZE 0 5% 1/10W	
	< IC >			JR201	1-216-295-00	METAL GLAZE 0 5% 1/10W	
IC1	8-759-376-75	IC SDA5250M-C5-GE9		JR204	1-216-295-00	METAL GLAZE 0 5% 1/10W	
IC2	8-759-334-20	IC ST24E32M6TR		JR205	1-216-295-00	METAL GLAZE 0 5% 1/10W	
IC3	8-759-353-82	IC TMS27PC020-15FML		JR206	1-216-295-00	METAL GLAZE 0 5% 1/10W	
IC4	8-759-394-57	IC PST593C-MMP-4P		JR207	1-216-295-00	METAL GLAZE 0 5% 1/10W	
IC201	8-752-076-06	IC CXA2040Q-T4		JR304	1-216-296-91	METAL GLAZE 0 5% 1/8W	
IC202	8-759-376-80	IC MSP3410B-P8-F7-T	(KV-28WS2B/28WS2E/28WS2U)	JR305	1-216-296-91	METAL GLAZE 0 5% 1/8W	
	8-759-376-56	IC MSP3400C-P8-C6-T	(KV-28WS2D/28WS2K/28WS2R)	R1	1-216-295-00	METAL GLAZE 0 5% 1/10W	
IC203	8-759-385-76	IC MC14052BDR2		R2	1-216-025-00	METAL GLAZE 100 5% 1/10W	
IC301	8-752-076-09	IC CXA2000Q-TL		R3	1-216-025-00	METAL GLAZE 100 5% 1/10W	
IC302	8-759-288-85	IC TDA4665T-T		R4	1-216-013-00	METAL GLAZE 33 5% 1/10W	
IC303	8-759-251-56	IC TDA8395T/N3	(KV-28WS2B/28WS2D/28WS2E/28WS2K/28WS2R)	R5	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
IC1001	8-759-376-76	IC SDA5273CP-GE9		R7	1-216-041-00	METAL GLAZE 470 5% 1/10W	
	< COIL >			R8	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
L10	1-410-379-31	INDUCTOR CHIP 6.8UH		R9	1-216-041-00	METAL GLAZE 470 5% 1/10W	
L102	1-408-406-00	INDUCTOR 5.6UH (KV-28WS2B)		R10	1-216-041-00	METAL GLAZE 470 5% 1/10W	
L111	1-410-993-11	INDUCTOR CHIP 1UH		R11	1-216-041-00	METAL GLAZE 470 5% 1/10W	
L120	1-408-408-00	INDUCTOR 8.2UH		R12	1-216-041-00	METAL GLAZE 470 5% 1/10W	
L121	1-408-397-00	INDUCTOR 1UH		R18	1-216-025-00	METAL GLAZE 100 5% 1/10W	
L122	1-408-408-00	INDUCTOR 8.2UH		R19	1-216-025-00	METAL GLAZE 100 5% 1/10W	
L300	1-408-607-31	INDUCTOR 2.2UH		R20	1-216-025-00	METAL GLAZE 100 5% 1/10W	
	< TRANSISTOR >			R21	1-216-025-00	METAL GLAZE 100 5% 1/10W	
Q1	8-729-920-74	TRANSISTOR 2SC2412K-QR		R24	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q4	8-729-920-74	TRANSISTOR 2SC2412K-QR		R25	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q15	8-729-216-22	TRANSISTOR 2SA1162-G		R28	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q17	8-729-216-22	TRANSISTOR 2SA1162-G		R29	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q80	8-729-920-74	TRANSISTOR 2SC2412K-QR		R30	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q81	8-729-216-22	TRANSISTOR 2SA1162-G		R31	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q110	8-729-920-74	TRANSISTOR 2SC2412K-QR		R32	1-216-025-00	METAL GLAZE 100 5% 1/10W	
Q111	8-729-216-22	TRANSISTOR 2SA1162-G		R33	1-216-025-00	METAL GLAZE 100 5% 1/10W	
Q112	8-729-920-74	TRANSISTOR 2SC2412K-QR		R34	1-216-025-00	METAL GLAZE 100 5% 1/10W	
Q113	8-729-216-22	TRANSISTOR 2SA1162-G		R35	1-216-025-00	METAL GLAZE 100 5% 1/10W	
Q114	8-729-216-22	TRANSISTOR 2SA1162-G		R36	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q120	8-729-920-74	TRANSISTOR 2SC2412K-QR		R37	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q121	8-729-920-74	TRANSISTOR 2SC2412K-QR (KV-28WS2B)		R38	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q122	8-729-920-74	TRANSISTOR 2SC2412K-QR		R39	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q124	8-729-920-74	TRANSISTOR 2SC2412K-QR (KV-28WS2B)		R40	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
				R42	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
				R44	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
				R46	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
				R47	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
				R48	1-216-121-91	METAL GLAZE 1M 5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R49	1-216-025-00	METAL GLAZE	100 5% 1/10W	R118	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R50	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R119	1-216-033-00	METAL GLAZE	220 5% 1/10W
R51	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R120	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R52	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R121	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R53	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R122	1-216-041-00	METAL GLAZE	470 5% 1/10W
R54	1-216-025-00	METAL GLAZE	100 5% 1/10W	R123	1-216-031-00	METAL GLAZE	180 5% 1/10W
R58	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W	R124	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R59	1-216-025-00	METAL GLAZE	100 5% 1/10W	R125	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R60	1-216-025-00	METAL GLAZE	100 5% 1/10W	R126	1-216-025-00	METAL GLAZE	100 5% 1/10W
R61	1-216-025-00	METAL GLAZE	100 5% 1/10W	R127	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R62	1-216-025-00	METAL GLAZE	100 5% 1/10W	R128	1-216-035-00	METAL GLAZE	270 5% 1/10W
R63	1-216-025-00	METAL GLAZE	100 5% 1/10W	R129	1-216-037-00	METAL GLAZE	330 5% 1/10W
R64	1-216-025-00	METAL GLAZE	100 5% 1/10W	R130	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R65	1-216-025-00	METAL GLAZE	100 5% 1/10W	R131	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R66	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R132	1-216-025-00	METAL GLAZE	100 5% 1/10W
R67	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R133	1-216-041-00	METAL GLAZE	470 5% 1/10W
R69	1-216-025-00	METAL GLAZE	100 5% 1/10W	R134	1-216-001-00	METAL GLAZE	10 5% 1/10W
R70	1-216-025-00	METAL GLAZE	100 5% 1/10W	R135	1-216-045-00	METAL GLAZE	680 5% 1/10W
R71	1-216-025-00	METAL GLAZE	100 5% 1/10W	R136	1-216-033-00	METAL GLAZE	220 5% 1/10W
R72	1-216-025-00	METAL GLAZE	100 5% 1/10W	R137	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R73	1-216-025-00	METAL GLAZE	100 5% 1/10W	R138	1-216-041-00	METAL GLAZE	470 5% 1/10W
R74	1-216-025-00	METAL GLAZE	100 5% 1/10W	R200	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R75	1-216-025-00	METAL GLAZE	100 5% 1/10W	R201	1-216-033-00	METAL GLAZE	220 5% 1/10W
R76	1-216-025-00	METAL GLAZE	100 5% 1/10W	R202	1-216-033-00	METAL GLAZE	220 5% 1/10W
R77	1-216-025-00	METAL GLAZE	100 5% 1/10W	R203	1-216-025-00	METAL GLAZE	100 5% 1/10W
R78	1-216-025-00	METAL GLAZE	100 5% 1/10W	R204	1-216-025-00	METAL GLAZE	100 5% 1/10W
R79	1-216-033-00	METAL GLAZE	220 5% 1/10W	R205	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R80	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R206	1-216-033-00	METAL GLAZE	220 5% 1/10W
R81	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R208	1-216-041-00	METAL GLAZE	470 5% 1/10W
R82	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R209	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R83	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R210	1-216-017-91	METAL GLAZE	47 5% 1/10W
R84	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R211	1-216-033-00	METAL GLAZE	220 5% 1/10W
R85	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R212	1-216-022-00	METAL GLAZE	75 5% 1/10W
R86	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R213	1-216-022-00	METAL GLAZE	75 5% 1/10W
R87	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R214	1-216-025-00	METAL GLAZE	100 5% 1/10W
R88	1-216-025-00	METAL GLAZE	100 5% 1/10W	R216	1-216-025-00	METAL GLAZE	100 5% 1/10W
R91	1-216-025-00	METAL GLAZE	100 5% 1/10W	R217	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R92	1-216-025-00	METAL GLAZE	100 5% 1/10W	R218	1-216-025-00	METAL GLAZE	100 5% 1/10W
R93	1-216-033-00	METAL GLAZE	220 5% 1/10W	R219	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R94	1-216-033-00	METAL GLAZE	220 5% 1/10W	R220	1-216-295-00	METAL GLAZE	0 5% 1/10W
R95	1-216-033-00	METAL GLAZE	220 5% 1/10W	R221	1-216-039-00	METAL GLAZE	390 5% 1/10W
R97	1-216-295-00	METAL GLAZE	0 5% 1/10W	R222	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R98	1-216-295-00	METAL GLAZE	0 5% 1/10W	R223	1-216-295-00	METAL GLAZE	0 5% 1/10W
R101	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R224	1-216-039-00	METAL GLAZE	390 5% 1/10W
R102	1-216-025-00	METAL GLAZE	100 5% 1/10W	R225	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R103	1-216-025-00	METAL GLAZE	100 5% 1/10W	R226	1-216-033-00	METAL GLAZE	220 5% 1/10W
R104	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R227	1-216-022-00	METAL GLAZE	75 5% 1/10W
R105	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R228	1-216-022-00	METAL GLAZE	75 5% 1/10W
R106	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R229	1-216-033-00	METAL GLAZE	220 5% 1/10W
R110	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R230	1-216-022-00	METAL GLAZE	75 5% 1/10W
R111	1-216-029-00	METAL GLAZE	150 5% 1/10W	R232	1-216-025-00	METAL GLAZE	100 5% 1/10W
R112	1-216-029-00	METAL GLAZE	150 5% 1/10W	R233	1-216-025-00	METAL GLAZE	100 5% 1/10W
R113	1-216-001-00	METAL GLAZE	10 5% 1/10W	R234	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R114	1-216-029-00	METAL GLAZE	150 5% 1/10W	R235	1-216-025-00	METAL GLAZE	100 5% 1/10W
R115	1-216-037-00	METAL GLAZE	330 5% 1/10W	R236	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R116	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R237	1-216-295-00	METAL GLAZE	0 5% 1/10W
R117	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	R238	1-216-089-00	METAL GLAZE	47K 5% 1/10W
		(KV-28WS2B/28WS2D/28WS2R/28WS2K/28WS2R)		R239	1-216-039-00	METAL GLAZE	390 5% 1/10W
	1-216-056-00	METAL GLAZE	2.0K 5% 1/10W	R240	1-216-295-00	METAL GLAZE	0 5% 1/10W
		(KV-28WS2U)		R241	1-216-089-00	METAL GLAZE	47K 5% 1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R242	1-216-039-00	METAL GLAZE 390 5%	1/10W
R243	1-216-033-00	METAL GLAZE 220 5%	1/10W
R244	1-216-033-00	METAL GLAZE 220 5%	1/10W
R245	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R246	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R247	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R249	1-216-001-00	METAL GLAZE 10 5%	1/10W
R251	1-216-025-00	METAL GLAZE 100 5%	1/10W
R252	1-216-025-00	METAL GLAZE 100 5%	1/10W
R253	1-216-025-00	METAL GLAZE 100 5%	1/10W
R254	1-216-025-00	METAL GLAZE 100 5%	1/10W
R255	1-216-025-00	METAL GLAZE 100 5%	1/10W
R256	1-216-025-00	METAL GLAZE 100 5%	1/10W
R270	1-216-022-00	METAL GLAZE 75 5%	1/10W
R271	1-216-022-00	METAL GLAZE 75 5%	1/10W
R272	1-216-022-00	METAL GLAZE 75 5%	1/10W
R273	1-216-022-00	METAL GLAZE 75 5%	1/10W
R280	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R281	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R282	1-216-093-00	METAL GLAZE 68K 5%	1/10W
R284	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R285	1-216-093-00	METAL GLAZE 68K 5%	1/10W
R300	1-216-025-00	METAL GLAZE 100 5%	1/10W
R301	1-216-033-00	METAL GLAZE 220 5%	1/10W
R302	1-216-295-00	METAL GLAZE 0 5%	1/10W
R303	1-216-295-00	METAL GLAZE 0 5%	1/10W
R308	1-216-025-00	METAL GLAZE 100 5%	1/10W
R309	1-216-033-00	METAL GLAZE 220 5%	1/10W
R310	1-216-033-00	METAL GLAZE 220 5%	1/10W
R311	1-216-295-00	METAL GLAZE 0 5%	1/10W
R312	1-216-295-00	METAL GLAZE 0 5%	1/10W
R313	1-216-295-00	METAL GLAZE 0 5%	1/10W
R314	1-216-295-00	METAL GLAZE 0 5%	1/10W
R315	1-216-295-00	METAL GLAZE 0 5%	1/10W
R316	1-216-033-00	METAL GLAZE 220 5%	1/10W
R318	1-216-689-11	METAL GLAZE 39K 5%	1/10W
R319	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R320	1-216-025-00	METAL GLAZE 100 5%	1/10W
R321	1-216-025-00	METAL GLAZE 100 5%	1/10W
R322	1-216-025-00	METAL GLAZE 100 5%	1/10W
R323	1-216-033-00	METAL GLAZE 220 5%	1/10W
R324	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
R326	1-216-025-00	METAL GLAZE 100 5%	1/10W
R327	1-216-025-00	METAL GLAZE 100 5%	1/10W
R328	1-216-129-00	METAL GLAZE 2.2M 5%	1/10W
R329	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R330	1-216-025-00	METAL GLAZE 100 5%	1/10W
R331	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R332	1-216-025-00	METAL GLAZE 100 5%	1/10W
R333	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R334	1-216-041-00	METAL GLAZE 470 5%	1/10W
R335	1-208-806-11	METAL CHIP 10K 0.50%	1/10W
R336	1-216-109-00	METAL GLAZE 330K 5%	1/10W
R337	1-216-025-00	METAL GLAZE 100 5%	1/10W
R338	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R339	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R340	1-216-025-00	METAL GLAZE 100 5%	1/10W
R341	1-216-025-00	METAL GLAZE 100 5%	1/10W
R342	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R343	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R344	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R345	1-216-025-00	METAL GLAZE 100 5%	1/10W
R346	1-216-063-91	METAL GLAZE 3.9K 5%	1/10W
R347	1-216-025-00	METAL GLAZE 100 5%	1/10W
R348	1-216-025-00	METAL GLAZE 100 5%	1/10W
R349	1-216-025-00	METAL GLAZE 100 5%	1/10W
R350	1-216-042-00	METAL GLAZE 510 5%	1/10W
R351	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R352	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R353	1-216-033-00	METAL GLAZE 220 5%	1/10W
R354	1-216-295-00	METAL GLAZE 0 5%	1/10W
R357	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R370	1-216-295-00	METAL GLAZE 0 5%	1/10W
R1001	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1002	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1010	1-216-295-00	METAL GLAZE 0 5%	1/10W
R1012	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1014	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1020	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R1021	1-216-029-00	METAL GLAZE 150 5%	1/10W
R1022	1-216-029-00	METAL GLAZE 150 5%	1/10W
R1023	1-216-029-00	METAL GLAZE 150 5%	1/10W
R1024	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1026	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1027	1-216-025-00	METAL GLAZE 100 5%	1/10W
R1028	1-216-025-00	METAL GLAZE 100 5%	1/10W
< TUNER >			
TU101	1-693-338-11	TUNER/VIF (AEP) (KV-28WS2D/28WS2E/28WS2K/28WS2R)	
	1-693-340-11	TUNER/VIF (FR) (KV-28WS2B)	
	1-693-339-11	TUNER/VIF (UK) (KV-28WS2U)	
< CRYSTAL >			
X1	1-767-154-21	VIBRATOR, CERAMIC	
X201	1-760-628-11	VIBRATOR, CRYSTAL 18.432MHz	
X301	1-567-504-11	OSCILLATOR, CRYSTAL	
X302	1-567-505-11	OSCILLATOR, CRYSTAL	
X303	1-767-127-11	VIBRATOR, CERAMIC	
X1001	1-579-965-21	VIBRATOR, CRYSTAL	

*A-1638-079-A C BOARD, COMPLETE			

< CAPACITOR >			
C702	1-102-115-00	CERAMIC 560PF 10% 50V	
C703	1-102-116-00	CERAMIC 680PF 10% 50V	
C708	1-162-114-00	CERAMIC 0.0047MF 2KV	
C710	1-107-652-11	ELECT 10MF 20% 250V	
C712	1-102-116-00	CERAMIC 680PF 10% 50V	
C714	1-126-967-11	ELECT 47MF 20% 16V	
C717	1-102-114-00	CERAMIC 470PF 10% 50V	
C718	1-102-114-00	CERAMIC 470PF 10% 50V	
C719	1-102-114-00	CERAMIC 470PF 10% 50V	
C722	1-101-880-00	CERAMIC 47PF 5% 50V	
C723	1-101-880-00	CERAMIC 47PF 5% 50V	
C724	1-101-880-00	CERAMIC 47PF 5% 50V	


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C D2 D3


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< CONNECTOR >				R729	1-249-408-11	CARBON 180 5% 1/4W	
CN701	1-778-037-11	PIN, CONNECTOR (5MM PITCH) 6P		R731	1-249-423-11	CARBON 3.3K 5% 1/4W	
CN702	1-695-915-11	TAB (CONTACT)		R733	1-249-415-11	CARBON 680 5% 1/4W	
CN703	*1-568-882-51	PIN, CONNECTOR 7P		R734	1-247-807-31	CARBON 100 5% 1/4W	
< DIODE >				R735	1-249-415-11	CARBON 680 5% 1/4W	
D701	8-719-109-72	DIODE RD3.9HS-B2		R736	1-216-486-00	METAL OXIDE 8.2K 5% 3W F	
D702	8-719-991-33	DIODE 18S133T-77		R739	1-249-417-11	CARBON 1K 5% 1/4W	
D706	8-719-991-33	DIODE 18S133T-77		R740	1-249-415-11	CARBON 680 5% 1/4W	
D707	8-719-991-33	DIODE 18S133T-77		R741	1-202-549-00	SOLID 100 20% 1/2W	
D708	8-719-991-33	DIODE 18S133T-77		R744	1-249-421-11	CARBON 2.2K 5% 1/4W	
				R745	1-249-421-11	CARBON 2.2K 5% 1/4W	
D709	8-719-991-33	DIODE 18S133T-77		R746	1-249-421-11	CARBON 2.2K 5% 1/4W	
D710	8-719-991-33	DIODE 18S133T-77		R747	1-249-437-11	CARBON 47K 5% 1/4W	
D711	8-719-302-43	DIODE KL1Z		R748	1-249-417-11	CARBON 1K 5% 1/4W	
D714	8-719-991-33	DIODE 18S133T-77		R749	1-249-435-11	CARBON 33K 5% 1/4W	
D715	8-719-991-33	DIODE 18S133T-77		< VARIABLE RESISTOR >			
D716	8-719-991-33	DIODE 18S133T-77		RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
D717	8-719-991-33	DIODE 18S133T-77		RV702	1-241-656-21	RES, ADJ, METAL FILM 110M	
D718	8-719-991-33	DIODE 18S133T-77		*****			
D719	8-719-991-33	DIODE 18S133T-77		*A-1640-214-A D2 BOARD, COMPLETE			
D720	8-719-991-33	DIODE 18S133T-77		*****			
< CRT SOCKET >				< CAPACITOR >			
J701	Δ 1-526-990-22	SOCKET, CRT		C1801	1-126-967-11	ELECT 47MF 20% 50V	
< COIL >				C1803	1-137-368-11	FILM 0.0047MF 5% 50V	
L704	1-408-609-41	INDUCTOR 33UH		C1804	1-126-964-11	ELECT 10MF 20% 50V	
< TRANSISTOR >				C1807	1-137-366-11	FILM 0.0022MF 5% 50V	
Q702	8-729-119-78	TRANSISTOR 28C2785-HFE		< CONNECTOR >			
Q703	8-729-906-70	TRANSISTOR BF871-127		CN1801	1-573-299-21	CONNECTOR, BOARD TO BOARD 10P	
Q704	8-729-200-17	TRANSISTOR 2SA1091-0		CN1803	*1-568-878-51	PIN, CONNECTOR 3P	
Q705	8-729-119-78	TRANSISTOR 28C2785-HFE		< DIODE >			
Q706	8-729-906-70	TRANSISTOR BF871-127		D1802	8-719-110-17	DIODE RD10ESB2	
Q707	8-729-200-17	TRANSISTOR 2SA1091-0		< IC >			
Q708	8-729-119-78	TRANSISTOR 28C2785-HFE		IC1801	8-759-701-59	IC NJM78M09FA	
Q709	8-729-906-70	TRANSISTOR BF871-127		IC1802	8-759-603-37	IC M5216P	
Q710	8-729-200-17	TRANSISTOR 2SA1091-0		< LINK IC >			
Q711	8-729-026-41	TRANSISTOR 2SA933AS-QRT		JW1802	Δ 1-532-605-91	LINK, IC 0.4A (ICP-F10)	
< RESISTOR >				< RESISTOR >			
R704	1-216-486-00	METAL OXIDE 8.2K 5% 3W F		R1807	1-247-883-00	CARBON 150K 5% 1/4W	
R705	1-260-103-11	CARBON 2.2K 5% 1/2W		R1809	1-249-429-11	CARBON 10K 5% 1/4W	
R706	1-247-815-91	CARBON 220 5% 1/4W		R1810	1-249-429-11	CARBON 10K 5% 1/4W	
R707	1-249-408-11	CARBON 180 5% 1/4W		R1811	1-249-429-11	CARBON 10K 5% 1/4W	
R709	1-202-844-00	SOLID 330K 10% 1/2W		R1812	1-249-429-11	CARBON 10K 5% 1/4W	
R711	1-249-423-11	CARBON 3.3K 5% 1/4W		*****			
R712	1-260-103-11	CARBON 2.2K 5% 1/2W		*A-1640-235-A D3 BOARD, COMPLETE			
R714	1-216-486-00	METAL OXIDE 8.2K 5% 3W F		*****			
R715	1-249-417-11	CARBON 1K 5% 1/4W		< CAPACITOR >			
R716	1-247-815-91	CARBON 220 5% 1/4W		C2802	1-126-965-11	ELECT 22MF 20% 50V	
R717	1-249-408-11	CARBON 180 5% 1/4W					
R718	1-202-814-11	SOLID 33K 10% 1/2W					
R720	1-249-423-11	CARBON 3.3K 5% 1/4W					
R722	1-202-848-00	SOLID 680K 10% 1/2W					
R723	1-249-417-11	CARBON 1K 5% 1/4W					
R724	1-202-846-00	SOLID 470K 10% 1/2W					
R726	1-260-103-11	CARBON 2.2K 5% 1/2W					
R727	1-247-815-91	CARBON 220 5% 1/4W					
R728	1-216-350-11	METAL OXIDE 1.2 5% 1W F					


D3 **D**

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




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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< CONNECTOR >				C614	1-128-526-11	ELECT	100MF 20% 25V
CN2801	1-568-878-51	PIN, CONNECTOR 3P		C615	1-111-067-11	ELECT	0.001MF 20% 25V
CN2802	*1-580-798-11	CONNECTOR PIN (DY) 6P		C616	1-111-067-11	ELECT	0.001MF 20% 25V
CN2803	*1-580-798-11	CONNECTOR PIN (DY) 6P		C617	1-128-339-51	ELECT	2200MF 20% 16V
< DIODE >				C618	1-136-165-00	FILM	0.1MF 5% 50V
D2801	8-719-991-33	DIODE 1SS133T-77		C619	1-102-228-00	CERAMIC	470PF 10% 500V
< TRANSISTOR >				C620	1-102-228-00	CERAMIC	470PF 10% 500V
Q2801	8-729-119-78	TRANSISTOR 2SC2785-HFE		C621	1-136-165-00	FILM	0.1MF 5% 50V
< RESISTOR >				C622	1-107-925-11	ELECT	1.0MF 20% 100V
R2801	1-249-421-11	CARBON 2.2K 5% 1/4W		C623	1-104-666-11	ELECT	220MF 20% 25V
< RELAY >				C624	1-136-165-00	FILM	0.1MF 5% 50V
RY2801	1-755-068-11	RELAY		C625	1-126-967-11	ELECT	47MF 20% 50V
< COIL >				C626	1-104-666-11	ELECT	220MF 20% 25V
T2801	1-411-981-11	COIL, CHOKE 245UH		C628	1-126-964-11	ELECT	10MF 20% 50V
*****				C629	1-111-097-11	ELECT	2200MF 20% 35V
*A-1642-190-A D BOARD, COMPLETE				C630	1-111-097-11	ELECT	2200MF 20% 35V
*****				C631	1-126-965-11	ELECT	22MF 20% 50V
4-201-023-01 SPACER, INSULATING				C632	1-104-666-11	ELECT	220MF 20% 25V
4-202-373-01 SPRING, IC				C633 	1-107-563-12	FILM	0.1MF 20% 300V
< CAPACITOR >				C634 	1-107-563-12	FILM	0.1MF 20% 300V
C502	1-102-824-00	CERAMIC 470PF 5% 50V		C635 	1-107-563-12	FILM	0.1MF 20% 300V
C503	1-136-165-00	FILM 0.1MF 5% 50V		C636 	1-113-890-51	ELECT	0.0022MF 20% 250V
C504	1-102-824-00	CERAMIC 470PF 5% 50V		C638	1-136-203-11	FILM	0.01MF 10% 630V
C506	1-126-941-11	ELECT 470MF 20% 25V		C640	1-106-220-00	MYLAR	0.1MF 10% 100V
C507	1-109-953-11	ELECT 2.2MF 20% 50V		C644	1-137-043-11	FILM	0.0047MF 10% 400V
C509	1-136-165-00	FILM 0.1MF 5% 50V		C647	1-162-116-00	CERAMIC	680PF 10% 2KV
C510	1-126-969-11	ELECT 220MF 20% 50V		C651	1-102-228-00	CERAMIC	470PF 10% 500V
C511	1-136-202-11	FILM 0.33MF 5% 63V		C800	1-137-368-11	FILM	0.0047MF 5% 50V
C513	1-106-220-00	MYLAR 0.1MF 10% 100V		C801	1-137-368-11	FILM	0.0047MF 5% 50V
C514	1-136-165-00	FILM 0.1MF 5% 50V		C802	1-102-074-00	FILM	0.001MF 10% 50V
C515	1-126-941-11	ELECT 470MF 20% 25V		C804	1-136-165-00	FILM	0.1MF 5% 50V
C517	1-126-941-11	ELECT 470MF 20% 25V		C805	1-136-207-11	FILM	0.047MF 10% 250V
C518	1-102-228-00	CERAMIC 470PF 10% 500V		C806	1-104-999-11	MYLAR	0.1MF 10% 200V
C519	1-102-228-00	CERAMIC 470PF 10% 500V		C807	1-136-109-00	FILM	0.68MF 5% 200V
C520	1-126-941-11	ELECT 470MF 20% 25V		C808	1-136-104-00	FILM	0.16MF 5% 200V
C521	1-107-698-11	ELECT 10MF 20% 25V		C810	1-107-683-11	ELECT	2.2MF 0 250V
C522	1-126-964-11	ELECT 10MF 20% 50V		C811	1-102-212-00	CERAMIC	820PF 10% 500V
C523	1-136-165-00	FILM 0.1MF 5% 50V		C812	1-136-540-11	FILM	0.82MF 5% 200V
C600 	1-113-890-51	ELECT 0.0022MF 20% 250V		C813	1-129-722-00	FILM	0.047MF 10% 630V
C601 	1-161-964-91	CERAMIC 0.0047MF 250V		C814	1-136-084-00	FILM	0.0145MF 3% 2KV
C602 	1-161-964-91	CERAMIC 0.0047MF 250V		C815	1-137-047-11	FILM	0.01MF 10% 400V
C603	1-125-555-11	ELECT 330MF 20% 400V		C816	1-162-134-11	CERAMIC	470PF 10% 2KV
C604	1-126-968-11	ELECT 100MF 20% 50V		C817	1-162-116-00	CERAMIC	680PF 10% 2KV
C605	1-107-929-11	ELECT 10MF 20% 100V		C818	1-162-134-11	CERAMIC	470PF 10% 2KV
C606	1-162-318-11	CERAMIC 0.001MF 10% 500V		C819	1-136-208-11	FILM	0.068MF 10% 250V
C607	1-104-666-11	ELECT 220MF 20% 25V		C820	1-102-114-00	CERAMIC	470PF 10% 50V
C608	1-109-880-11	FILM 0.0015MF 3% 2KV		C821	1-162-114-00	CERAMIC	0.0047MF 2KV
C611	1-102-228-00	CERAMIC 470PF 10% 500V		C822	1-107-662-11	ELECT	22MF 20% 250V
C612	1-111-160-91	ELECT 22MF 20% 100V		C824	1-123-024-21	ELECT	33MF 160V
C613	1-124-347-00	ELECT 100MF 20% 160V		C829	1-124-902-00	ELECT	0.47MF 20% 50V
				C830	1-124-902-00	ELECT	0.47MF 20% 50V
				C832	1-124-903-11	ELECT	1MF 20% 50V
				C834	1-128-551-11	ELECT	22MF 20% 25V
				C835	1-162-318-11	CERAMIC	0.001MF 10% 500V
				C836	1-162-117-00	CERAMIC	100PF 10% 500V
				C837	1-102-978-00	CERAMIC	220PF 5% 50V
				C838	1-102-228-00	CERAMIC	470PF 10% 500V
				C839	1-136-207-11	FILM	0.047MF 10% 250V
				C845	1-101-880-00	CERAMIC	47PF 5% 50V
				C901	1-101-810-00	CERAMIC	100PF 5% 500V

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D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C902	1-137-372-11	FILM 0.022MF 5% 50V		D609	8-719-301-64	DIODE RU4D8	
C903	1-137-372-11	FILM 0.022MF 5% 50V		D610	8-719-046-74	DIODE AU-01Z-V1	
C904	1-104-665-11	ELECT 100MF 20% 25V		D611	8-719-058-38	DIODE FMN-G128	
C905	1-126-964-11	ELECT 10MF 20% 50V		D612	8-719-046-76	DIODE RU-3YX-V1	
C906	1-126-964-11	ELECT 10MF 20% 50V		D613	8-719-058-38	DIODE FMN-G128	
C907	1-126-964-11	ELECT 10MF 20% 50V		D614	8-719-058-38	DIODE FMN-G128	
C908	1-126-964-11	ELECT 10MF 20% 50V		D615	8-719-046-75	DIODE EU-1-V1	
C911	1-126-964-11	ELECT 10MF 20% 50V		D616	8-719-110-03	DIODE RD7.5ESB2	
C913	1-101-810-00	CERAMIC 100PF 5% 500V		D617	8-719-991-33	DIODE 1S8133T-77	
C914	1-101-004-00	CERAMIC 0.01MF 50V		D618	8-719-991-33	DIODE 1S8133T-77	
C915	1-136-166-00	FILM 0.12MF 5% 50V		D619	8-719-991-33	DIODE 1S8133T-77	
C1200	1-136-165-00	FILM 0.1MF 5% 50V		D620	8-719-991-33	DIODE 1S8133T-77	
C1201	1-136-173-00	FILM 0.47MF 5% 50V		D622	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C1202	1-136-173-00	FILM 0.47MF 5% 50V		D625	8-719-991-33	DIODE 1S8133T-77	
C1203	1-136-169-00	FILM 0.22MF 5% 50V		D626	8-719-046-74	DIODE AU-01Z-V1	
C1204	1-136-169-00	FILM 0.22MF 5% 50V		D631	8-719-109-93	DIODE RD6.2ES-B2	
C1205	1-101-005-00	CERAMIC 0.022MF 50V		D800	8-719-991-33	DIODE 1S8133T-77	
C1206	1-101-005-00	CERAMIC 0.022MF 50V		D801	8-719-991-33	DIODE 1S8133T-77	
C1207	1-126-933-11	ELECT 100MF 20% 16V		D802	8-719-991-33	DIODE 1S8133T-77	
C1208	1-126-963-11	ELECT 4.7MF 20% 50V		D803	8-719-908-03	DIODE GP08D	
C1209	1-126-963-11	ELECT 4.7MF 20% 50V		D807	8-719-302-43	DIODE EL1Z	
C1212	1-162-318-11	CERAMIC 0.001MF 10% 500V		D808	8-719-908-03	DIODE GP08D	
C1213	1-162-318-11	CERAMIC 0.001MF 10% 500V		D809	8-719-018-82	DIODE RGP02-20EL-6394	
C1214	1-126-933-11	ELECT 100MF 20% 16V		D810	8-719-302-43	DIODE EL1Z	
C1215	1-136-173-00	FILM 0.47MF 5% 50V		D812	8-719-038-49	DIODE FMS-3FU-LF027-103	
C1216	1-137-366-11	FILM 0.0022MF 5% 50V		D815	8-719-908-03	DIODE GP08D	
C1217	1-137-366-11	FILM 0.0022MF 5% 50V		D817	8-719-109-85	DIODE RD5.1ES-B2	
C1218	1-126-935-11	ELECT 470MF 20% 16V		D901	8-719-030-11	DIODE SLA-570KT3F	
< CONNECTOR >				*4-203-258-01	HOLDER, LED ;D901		
CN600	 1-508-786-11	PIN, CONNECTOR (5MM PITCH) 2P		D902	8-719-923-60	DIODE MTZJ-T-77-9.1A	
CN601	 1-508-765-11	PIN, CONNECTOR (5MM PITCH) 3P		D903	8-719-923-60	DIODE MTZJ-T-77-9.1A	
CN603	 *1-580-844-11	PIN, CONNECTOR (POWER)		D904	8-719-923-60	DIODE MTZJ-T-77-9.1A	
CN800	*1-580-798-11	CONNECTOR PIN (DY) 6P		D905	8-719-923-60	DIODE MTZJ-T-77-9.1A	
CN801	*1-573-296-21	CONNECTOR, BOARD TO BOARD 10P		D906	8-719-923-60	DIODE MTZJ-T-77-9.1A	
CN803	1-695-915-21	TAB (CONTACT)		D1201	8-719-109-72	DIODE RD3.9ES-B2	
CN804	1-778-037-11	PIN, CONNECTOR 6P		< FUSE >			
CN807	1-568-878-51	PIN, CONNECTOR 3P		F601	 1-576-232-21	FUSE (E.B.C.) 5A/250V	
CN900	1-568-678-11	TERMINAL BLOCK, 8 3P		 1-533-230-12	HOLDER, FUSE ;F601		
CN902	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P		< FERRITE BEAD >			
CN1401	*1-568-880-51	PIN, CONNECTOR 5P		FB600	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
CN1407	1-564-511-11	PLUG, CONNECTOR 8P		FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
CN1408	*1-568-879-11	PIN, CONNECTOR 4P		FB602	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
CN1420	1-568-878-51	PIN, CONNECTOR 3P		FB604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
< DIODE >				FB605	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
D500	8-719-109-85	DIODE RD5.1ES-B2		FB606	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D502	8-719-979-85	DIODE EGP20G		FB607	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D503	8-719-979-85	DIODE EGP20G		FB608	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
D504	8-719-991-33	DIODE 1S8133T-77		FB800	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
D505	8-719-982-03	DIODE MTZJ-3.6A		< IC >			
D506	8-719-991-33	DIODE 1S8133T-77		IC500	8-759-192-71	IC STV9379	
D507	8-719-109-85	DIODE RD5.1ES-B2		IC600	8-749-010-92	IC STR-86709	
D600	8-719-510-53	DIODE D48B60L		IC601	 8-749-924-92	IC TLP721 (DA-)	
D601	8-719-046-77	DIODE EML-V1		IC602	8-749-920-61	IC SE-135N	
D603	8-719-109-97	DIODE RD6.8ES-B2		IC603	8-759-144-82	IC μ PC2405HF	
D604	8-719-046-75	DIODE EU-1-V1		IC604	8-759-510-52	IC TRA7605	
D605	8-719-302-43	DIODE EL1Z		IC606	8-759-267-25	IC LM2940T-9.0	
D606	8-719-302-43	DIODE EL1Z		IC800	8-759-103-93	IC μ PC393C	
D607	8-719-046-78	DIODE EG-1Z-V1		IC900	8-747-905-11	RAY CATCHER ELEMENT SBX1790-51	
D608	8-719-302-06	DIODE EU2A					

D

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The components identified by shading and marked \triangle are critical for safety. Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC901	8-749-012-12	IC I8474		< RESISTOR >			
IC1200	8-759-250-68	IC TDA7264		R500	1-215-457-00	METAL 33K 1% 1/4W	
IC1201	8-759-502-21	IC TDA2822M		R502	1-249-421-11	CARBON 2.2K 5% 1/4W	
< JACK SOCKET >				R503	1-249-429-11	CARBON 10K 5% 1/4W	
J900	1-764-606-11	JACK		R504	1-215-457-00	METAL 33K 1% 1/4W	
J1200	1-770-218-11	JACK, PIN		R505	1-249-382-11	CARBON 1.2 5% 1/4W	F
< COIL >				R507	1-215-888-00	METAL OXIDE 220 5% 2W	F
L502	1-412-519-11	INDUCTOR 3.3UH		R508	1-216-371-00	METAL OXIDE 1.5 5% 2W	F
L503	1-412-519-11	INDUCTOR 3.3UH		R509	1-249-443-11	CARBON 0.47 5% 1/4W	F
L609	1-412-533-21	INDUCTOR 47UH		R510	1-249-443-11	CARBON 0.47 5% 1/4W	F
L611	1-412-527-11	INDUCTOR 15UH		R520	1-215-457-00	METAL 33K 1% 1/4W	
L612	1-412-522-41	INDUCTOR 5.6UH		R521	1-215-457-00	METAL 33K 1% 1/4W	
L613	1-412-522-41	INDUCTOR 5.6UH		R522	1-247-863-91	CARBON 22K 5% 1/4W	
L615	1-412-529-11	INDUCTOR 22UH		R523	1-247-863-91	CARBON 22K 5% 1/4W	
L616	1-412-533-21	INDUCTOR 47UH		R524	1-249-425-11	CARBON 4.7K 5% 1/4W	
L801	1-459-111-00	COIL, DRAM CORE (CDI)		R525	1-249-425-11	CARBON 4.7K 5% 1/4W	
L802	1-459-104-00	COIL, WITH CORE		R526	1-249-421-11	CARBON 2.2K 5% 1/4W	
L803	1-420-872-00	COIL, AIR-CORE		R600	1-216-490-11	METAL OXIDE 39K 5% 3W	F
L804	1-429-306-11	TRANSFORMER, HORIZONTAL LINEARITY		R601	1-249-417-11	CARBON 1K 5% 1/4W	
L805	1-406-674-11	COIL, CHOKE 3.3MMH		R602	1-215-473-00	METAL 150K 1% 1/4W	
L806	1-412-527-11	INDUCTOR 15UH		R603	1-215-898-11	METAL OXIDE 10K 5% 2W	F
L809	1-412-533-21	INDUCTOR 47UH		R604	1-249-420-11	CARBON 1.8K 5% 1/4W	
L811	1-406-978-11	COIL, CHOKE 150UH		R605	1-216-362-11	METAL OXIDE 0.27 5% 2W	F
L813	1-412-552-11	INDUCTOR 2.2MMH		R607	1-216-421-11	METAL OXIDE 12 5% 1W	F
L901	1-408-603-31	INDUCTOR 10UH		R608	1-216-365-00	METAL OXIDE 0.47 5% 2W	F
L902	1-408-603-31	INDUCTOR 10UH		R610	1-215-427-00	METAL 1.8K 1% 1/4W	
L903	1-408-409-00	INDUCTOR 10UH		R611	1-216-354-11	METAL OXIDE 2.7 5% 1W	F
L904	1-408-409-00	INDUCTOR 10UH		R612	1-249-428-11	CARBON 8.2K 5% 1/4W	
< IC LINK >				R613	1-249-417-11	CARBON 1K 5% 1/4W	
PS600	\triangle 1-532-686-91	LINK, IC 2.7A (ICP-F75)		R614	1-215-877-11	METAL OXIDE 22K 5% 1W	F
PS601	\triangle 1-532-686-91	LINK, IC 2.7A (ICP-F75)		R615	1-249-435-11	CARBON 33K 5% 1/4W	
PS602	\triangle 1-532-686-91	LINK, IC 2.7A (ICP-F75)		R616	1-215-471-00	METAL 120K 1% 1/4W	
PS603	\triangle 1-532-686-91	LINK, IC 2.7A (ICP-F75)		R617	1-215-901-00	METAL OXIDE 33K 5% 2W	F
< TRANSISTOR >				R618	1-247-863-91	CARBON 22K 5% 1/4W	
Q501	8-729-119-78	TRANSISTOR 28C2785-HFE		R619	1-216-425-11	METAL OXIDE 56 5% 1W	F
Q502	8-729-119-76	TRANSISTOR 28A1175-HFE		R620	1-260-131-11	CARBON 470K 5% 1/2W	
Q503	8-729-900-89	TRANSISTOR DTC144ES		R621	1-216-425-11	METAL OXIDE 56 5% 1W	F
Q601	8-729-025-04	TRANSISTOR 28C3852A		R622	1-249-437-11	CARBON 47K 5% 1/4W	
Q602	8-729-320-28	TRANSISTOR 28A1667		R623	1-249-429-11	CARBON 10K 5% 1/4W	
Q603	8-729-805-05	TRANSISTOR 28C3601-E		R624	1-249-393-11	CARBON 10 5% 1/4W	F
Q604	8-729-024-35	TRANSISTOR 28C2808STP-R		R625	1-249-434-11	CARBON 27K 5% 1/4W	
Q605	8-729-119-78	TRANSISTOR 28C2785-HFE		R626	1-249-430-11	CARBON 12K 5% 1/4W	
Q606	8-729-900-65	TRANSISTOR DTA144ES		R627	1-216-347-11	METAL OXIDE 0.68 5% 1W	F
Q607	8-729-119-78	TRANSISTOR 28C2785-HFE		R628	1-249-415-11	CARBON 680 5% 1/4W	F
Q800	8-729-119-78	TRANSISTOR 28C2785-HFE		R629	\triangle 1-244-945-91	CARBON 1M 5% 1/2W	
Q801	8-729-017-06	TRANSISTOR 28C4793		R630	\triangle 1-218-265-21	METAL 8.2M 5% 1W	
Q802	8-729-016-32	TRANSISTOR 28C4927-01		R631	\triangle 1-205-949-11	WIREWOUND 1.8 5% 10W	
Q803	8-729-119-80	TRANSISTOR 28C2688-LK		R632	1-247-807-31	CARBON 100 5% 1/4W	
Q804	8-729-900-89	TRANSISTOR DTC144ES		R633	1-247-807-31	CARBON 100 5% 1/4W	
Q805	8-729-900-89	TRANSISTOR DTC144ES		R634	1-249-397-11	CARBON 22 5% 1/4W	F
Q900	8-729-119-78	TRANSISTOR 28C2785-HFE		R635	1-249-437-11	CARBON 47K 5% 1/4W	
Q1200	8-729-119-78	TRANSISTOR 28C2785-HFE		R636	1-249-417-11	CARBON 1K 5% 1/4W	
Q1201	8-729-900-74	TRANSISTOR DTC143TS		R637	1-247-815-91	CARBON 220 5% 1/4W	
Q1202	8-729-900-80	TRANSISTOR DTC114ES		R638	1-247-863-91	CARBON 22K 5% 1/4W	
Q1203	8-729-900-74	TRANSISTOR DTC143TS		R639	1-215-427-00	METAL 1.8K 1% 1/4W	
Q1204	8-729-900-74	TRANSISTOR DTC143TS		R642	\triangle 1-205-949-11	WIREWOUND 1.8 5% 10W	
				R645	1-249-422-11	CARBON 2.7K 5% 1/4W	
				R646	1-249-377-11	CARBON 0.47 5% 1/4W	F
				R647	1-202-933-61	FUSIBLE 0.1 10% 1/2W	F
				R649	1-249-426-11	CARBON 5.6K 5% 1/4W	F

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D **VM**


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R800	1-249-421-11	CARBON	2.2K 5% 1/4W	R1201	1-249-434-11	CARBON	27K 5% 1/4W
R802	1-249-429-11	CARBON	10K 5% 1/4W	R1202	1-249-389-11	CARBON	4.7 5% 1/4W F
R803	1-249-423-11	CARBON	3.3K 5% 1/4W	R1203	1-249-421-11	CARBON	2.2K 5% 1/4W
R805	1-247-863-91	CARBON	22K 5% 1/4W	R1204	1-249-421-11	CARBON	2.2K 5% 1/4W
R809	1-247-890-00	CARBON	330K 5% 1/4W	R1205	1-249-428-11	CARBON	8.2K 5% 1/4W
R812	1-249-421-11	CARBON	2.2K 5% 1/4W	R1206	1-249-428-11	CARBON	8.2K 5% 1/4W
R813	1-215-867-00	METAL OXIDE	470 5% 1W F	R1207	1-249-413-11	CARBON	470 5% 1/4W
R814	1-249-411-11	CARBON	330 5% 1/4W	R1208	1-212-849-00	FUSIBLE	4.7 5% 1/4W F
R816	1-216-481-11	METAL OXIDE	1.2K 5% 3W F	R1209	1-212-849-00	FUSIBLE	4.7 5% 1/4W F
R817	1-216-481-11	METAL OXIDE	1.2K 5% 3W F	R1210	1-249-413-11	CARBON	470 5% 1/4W
R818	1-215-883-11	METAL OXIDE	33 5% 2W F	R1211	1-249-424-11	CARBON	3.9K 5% 1/4W
R819	1-216-345-11	METAL OXIDE	0.47 5% 1W F	R1212	1-249-424-11	CARBON	3.9K 5% 1/4W
R820	1-249-403-11	CARBON	68 5% 1/4W	R1213	1-249-421-11	CARBON	2.2K 5% 1/4W
R821	1-215-909-11	METAL OXIDE	47 5% 3W F	R1216	1-249-413-11	CARBON	470 5% 1/4W
R822	1-215-868-00	METAL OXIDE	680 5% 1W F	R1217	1-249-425-11	CARBON	4.7K 5% 1/4W
R824	1-249-420-11	CARBON	1.8K 5% 1/4W	< RELAY >			
R826	1-247-752-11	CARBON	1K 5% 1/2W	RY600	Δ 1-755-018-11	RELAY	
R827	1-249-425-11	CARBON	4.7K 5% 1/4W	< SWITCH >			
R828	1-247-863-91	CARBON	22K 5% 1/4W	S601	Δ 1-571-433-21	SWITCH, PUSH (AC POWER)	
R829	1-249-493-11	CARBON	56K 5% 1/2W	S900	1-692-979-11	SWITCH, TACTILE	
R830	1-217-778-11	FUSIBLE	1K 5% 1W F	S901	1-692-979-11	SWITCH, TACTILE	
R832	1-215-877-11	METAL OXIDE	22K 5% 1W F	S902	1-692-979-11	SWITCH, TACTILE	
R833	1-249-441-11	CARBON	100K 5% 1/4W	< SPARK GAP >			
R835	1-216-471-11	METAL OXIDE	27 5% 3W F	SG801	1-519-422-11	GAP, SPARK	
R836	1-249-439-11	CARBON	68K 5% 1/4W	< TRANSFORMER >			
R837	1-249-427-11	CARBON	6.8K 5% 1/4W	LF600	Δ 1-421-776-21	LFT	
R840	1-247-815-91	CARBON	220 5% 1/4W	LF601	Δ 1-421-776-21	LFT	
R841	1-249-418-11	CARBON	1.2K 5% 1/4W	T601	Δ 1-429-604-11	SRT	
R842	1-249-441-11	CARBON	100K 5% 1/4W	T800	1-426-981-11	TRANSFORMER, FERRITE (PMT)	
R843	1-247-891-00	CARBON	330K 5% 1/4W	T803	Δ 1-453-169-11	TRANSFORMER ASSY, FLYBACK (UX-1604A2)	
R846	1-247-893-11	CARBON	390K 5% 1/4W	T804	1-437-090-31	HDT	
R847	1-247-897-11	CARBON	560K 5% 1/4W	< THERMISTOR >			
R848	1-249-863-91	CARBON	22K 5% 1/4W	TEP600	Δ 1-809-827-11	THERMISTOR, POSITIVE	
R849	1-249-429-11	CARBON	10K 5% 1/4W	*****			
R850	1-249-425-11	CARBON	4.7K 5% 1/4W	*A-1644-070-A	VM BOARD, COMPLETE		
R851	1-215-898-11	METAL OXIDE	10K 5% 2W F	*****			
R852	1-249-432-11	CARBON	18K 5% 1/4W	*4-368-683-21	SPRING, TRANSISTOR		
R870	1-216-349-00	METAL OXIDE	1 5% 1W F	< CAPACITOR >			
R900	1-247-815-91	CARBON	220 5% 1/4W	C1701	1-126-933-11	ELECT	100MF 20% 16V
R901	1-247-734-11	CARBON	39 5% 1/2W	C1702	1-128-551-11	ELECT	22MF 20% 25V
R902	1-247-734-11	CARBON	39 5% 1/2W	C1703	1-126-933-11	ELECT	100MF 20% 16V
R904	1-249-389-11	CARBON	4.7 5% 1/4W F	C1704	1-107-357-11	FILM	0.47MF 5% 100V
R905	1-247-804-11	CARBON	75 5% 1/4W	C1705	1-107-638-11	ELECT	33MF 20% 160V
R906	1-247-804-11	CARBON	75 5% 1/4W	C1706	1-104-999-11	FILM	0.1MF 5% 200V
R907	1-247-804-11	CARBON	75 5% 1/4W	C1707	1-137-397-11	FILM	0.047MF 5% 100V
R908	1-249-401-11	CARBON	47 5% 1/4W	C1708	1-137-364-11	FILM	0.001MF 5% 50V
R909	1-249-429-11	CARBON	10K 5% 1/4W	C1709	1-137-364-11	FILM	0.001MF 5% 50V
R910	1-249-422-11	CARBON	2.7K 5% 1/4W	C1710	1-102-074-00	CERAMIC	0.001MF 10% 50V
R911	1-249-426-11	CARBON	5.6K 5% 1/4W	C1720	1-107-667-11	ELECT	2.2MF 20% 160V
R912	1-249-429-11	CARBON	10K 5% 1/4W	C1721	1-137-397-11	FILM	0.047MF 5% 100V
R913	1-247-863-91	CARBON	22K 5% 1/4W	C1722	1-126-934-11	ELECT	220MF 20% 16V
R914	1-249-437-11	CARBON	47K 5% 1/4W				
R919	1-249-437-11	CARBON	47K 5% 1/4W				
R921	1-249-437-11	CARBON	47K 5% 1/4W				
R922	1-247-807-31	CARBON	100 5% 1/4W				
R923	1-249-421-11	CARBON	2.2K 5% 1/4W				
R924	1-259-884-11	CARBON	4.7M 5% 1/4W				
R925	1-247-807-31	CARBON	100 5% 1/4W				
R926	1-259-884-11	CARBON	4.7K 5% 1/4W				
R1200	1-249-425-11	CARBON	4.7K 5% 1/4W				




REF.NO.	PART NO.	DESCRIPTION	REMARK
C1723	1-161-830-00	CERAMIC 0.0047MF	500V
C1725	1-128-551-11	ELECT 22MF	20% 25V
C1726	1-126-934-11	ELECT 220MF	20% 16V
< CONNECTOR >			
CN1015	*1-568-880-51	PIN, CONNECTOR 5P	
CN1718	1-774-418-11	CONNECTOR, BOARD TO BOARD 8P	
< DIODE >			
D1701	8-719-991-33	DIODE 1SS133T-77	
D1702	8-719-110-88	DIODE RD39ES-B2	
D1703	8-719-110-88	DIODE RD39ES-B2	
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L1701	1-408-409-00	INDUCTOR 10UH	
L1702	1-408-403-00	INDUCTOR 3.3UH	
L1703	1-408-409-00	INDUCTOR 10UH	
L1704	1-408-418-00	INDUCTOR 56UH	
L1705	1-408-418-00	INDUCTOR 56UH	
< TRANSISTOR >			
Q1701	8-729-119-78	TRANSISTOR 28C2785-HFE	
Q1702	8-729-119-78	TRANSISTOR 28C2785-HFE	
Q1703	8-729-017-05	TRANSISTOR 2SA1837	
Q1704	8-729-119-78	TRANSISTOR 28C2785-HFE	
Q1706	8-729-017-06	TRANSISTOR 28C4793	
Q1708	8-729-119-78	TRANSISTOR 28C2785-HFE	
Q1709	8-729-119-78	TRANSISTOR 28C2785-HFE	
< RESISTOR >			
R1701	1-249-417-11	CARBON 1K 5%	1/4W
R1702	1-249-417-11	CARBON 1K 5%	1/4W
R1703	1-249-421-11	CARBON 2.2K 5%	1/4W
R1704	1-249-415-11	CARBON 680 5%	1/4W
R1705	1-247-815-91	CARBON 220 5%	1/4W
R1706	1-247-815-91	CARBON 220 5%	1/4W
R1708	1-249-412-11	CARBON 390 5%	1/4W
R1712	1-260-311-11	CARBON 39 5%	1/2W
R1713	1-249-384-11	CARBON 1.8 5%	1/4W F
R1714	1-249-414-11	CARBON 560 5%	1/4W F
R1715	1-249-432-11	CARBON 18K 5%	1/4W
R1716	1-249-417-11	CARBON 1K 5%	1/4W F
R1717	1-216-476-11	METAL OXIDE 180 5%	3W F
R1718	1-249-432-11	CARBON 18K 5%	1/4W
R1719	1-249-384-11	CARBON 1.8 5%	1/4W F
R1720	1-249-400-11	CARBON 39 5%	1/4W F
R1721	1-249-414-11	CARBON 560 5%	1/4W
R1722	1-249-401-11	CARBON 47 5%	1/4W
R1724	1-249-400-11	CARBON 39 5%	1/4W
R1725	1-216-451-11	METAL OXIDE 120 5%	2W F
R1728	1-249-413-11	CARBON 470 5%	1/4W
R1729	1-249-413-11	CARBON 470 5%	1/4W
R1730	1-249-422-11	CARBON 2.7K 5%	1/4W
R1731	1-249-411-11	CARBON 330 5%	1/4W

REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1649-018-A K1 BOARD, COMPLETE *****			
4-202-373-01 SPRING, IC			
< CAPACITOR >			
C261	1-136-173-00	FILM 0.47MF	5% 50V
C262	1-136-165-00	FILM 0.1MF	5% 50V
C263	1-136-173-00	FILM 0.47MF	5% 50V
C264	1-136-173-00	FILM 0.47MF	5% 50V
C265	1-137-366-11	FILM 0.0022MF	5% 50V
C266	1-137-366-11	FILM 0.0022MF	5% 50V
C267	1-136-169-00	FILM 0.22MF	5% 50V
C268	1-136-169-00	FILM 0.22MF	5% 50V
C269	1-101-005-00	CERAMIC 0.022MF	50V
C270	1-101-005-00	CERAMIC 0.022MF	50V
C271	1-126-952-11	ELECT 1000MF	20% 35V
C272	1-126-952-11	ELECT 1000MF	20% 35V
< CONNECTOR >			
CN1303	*1-568-879-11	PIN, CONNECTOR 4P	
CN1304	*1-568-879-11	PIN, CONNECTOR 4P	
CN1306	1-568-878-51	PIN, CONNECTOR 3P	
CN1307	*1-564-511-11	PLUG, CONNECTOR 8P	
< DIODE >			
D260	8-719-109-72	DIODE RD3.9ES-B2	
< IC >			
IC260	8-759-250-68	IC TDA7264	
< TRANSISTOR >			
Q260	8-729-900-74	TRANSISTOR DTC143TS	
Q261	8-729-119-78	TRANSISTOR 28C2785-HFE	
< RESISTOR >			
R261	1-249-413-11	CARBON 470 5%	1/4W
R262	1-249-421-11	CARBON 2.2K 5%	1/4W
R263	1-249-434-11	CARBON 27K 5%	1/4W
R264	1-249-425-11	CARBON 4.7K 5%	1/4W
R265	1-249-424-11	CARBON 3.9K 5%	1/4W
R266	1-249-424-11	CARBON 3.9K 5%	1/4W
R267	1-212-849-00	FUSIBLE 4.7 5%	1/4W F
R268	1-212-849-00	FUSIBLE 4.7 5%	1/4W F

*A-1651-088-A J BOARD, COMPLETE *****			
< CAPACITOR >			
C290	1-101-003-00	CERAMIC 0.0047MF	50V
C291	1-101-005-00	CERAMIC 0.022MF	50V
C293	1-101-003-00	CERAMIC 0.0047MF	50V
C294	1-101-005-00	CERAMIC 0.022MF	50V
C296	1-101-003-00	CERAMIC 0.0047MF	50V
C297	1-101-005-00	CERAMIC 0.022MF	50V
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CN1204	*1-564-519-11	PLUG, CONNECTOR 4P	

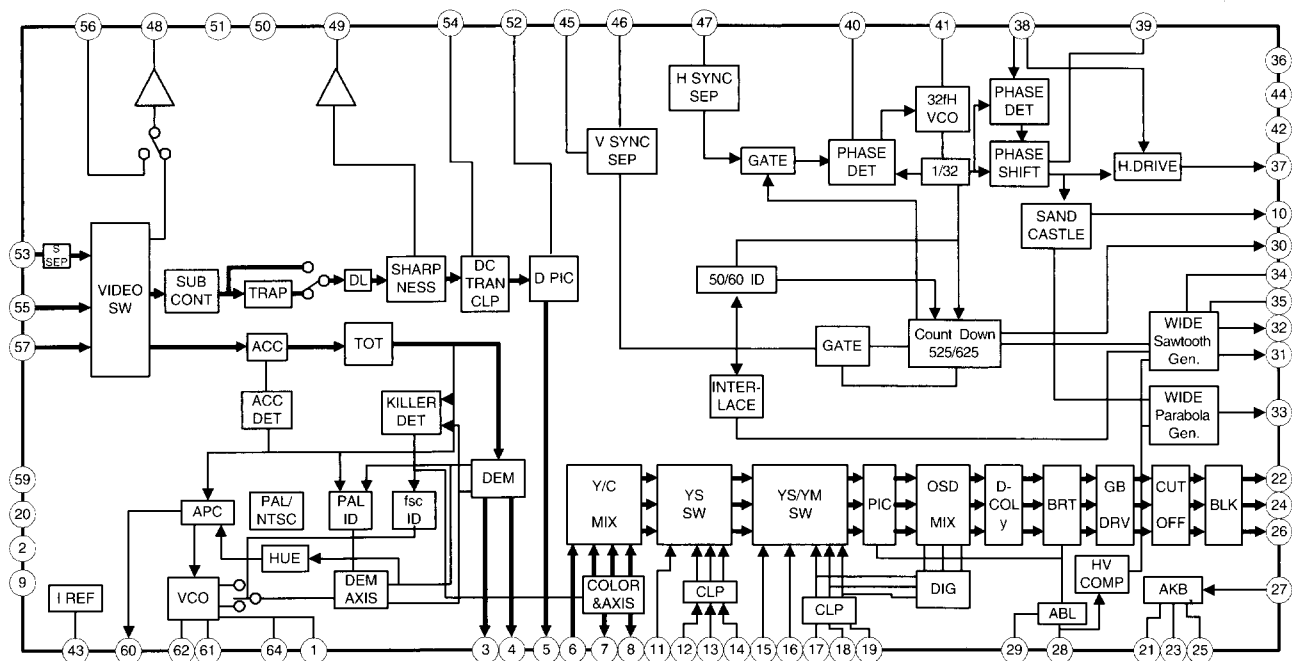
Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and marked  are critical for safety. Replace only with the part number specified.

J

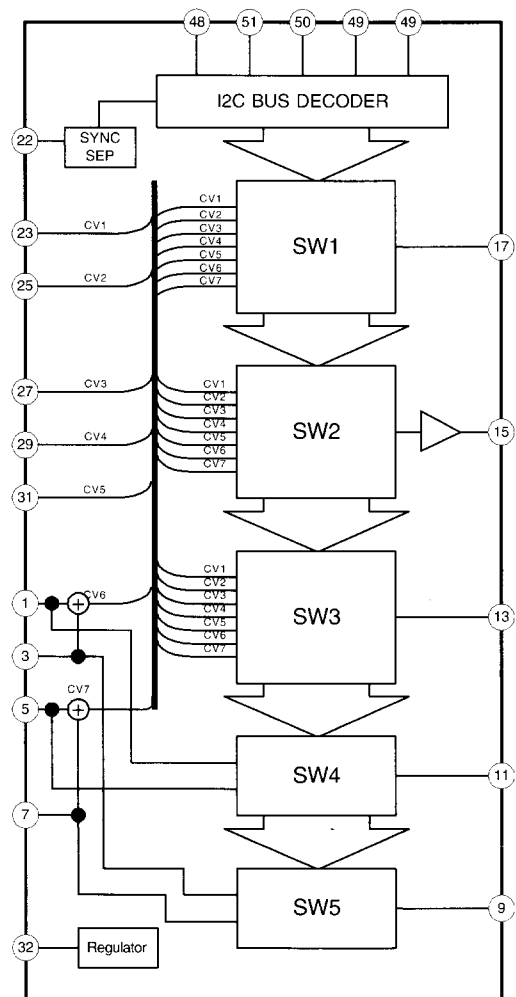
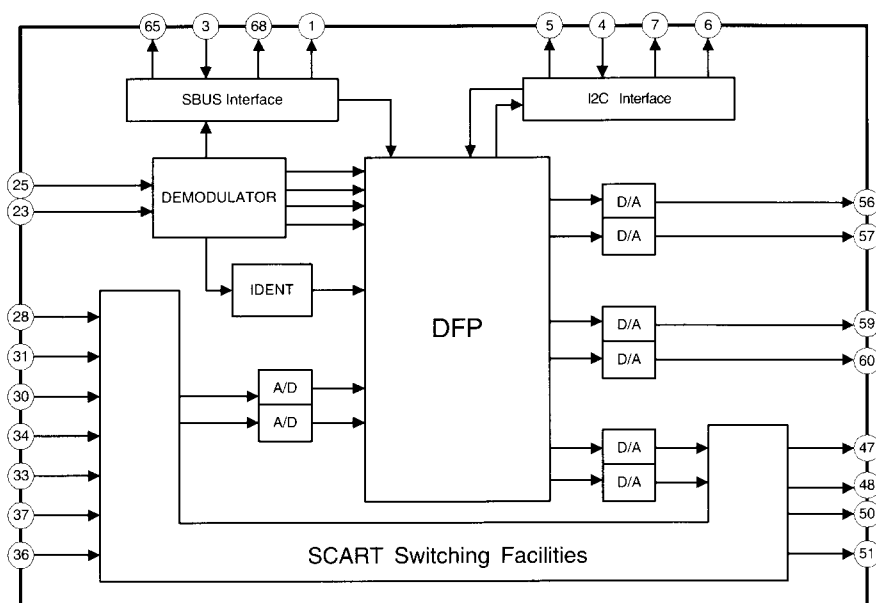
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
CN1206	*1-564-518-11	PLUG, CONNECTOR 3P				MISCELLANEOUS	
CN1208	*1-564-519-11	PLUG, CONNECTOR 4P				*****	
CN1210	*1-564-519-11	PLUG, CONNECTOR 4P					
CN1211	*1-564-519-11	PLUG, CONNECTOR 4P					
CN1299	*1-564-519-11	PLUG, CONNECTOR 4P					
		< SOCKET >					
J291	1-537-339-11	TERMINAL BOARD					
J292	1-537-339-11	TERMINAL BOARD					
		< RESISTOR >					
R290	1-249-426-11	CARBON	5.6K 5% 1/4W				
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R292	1-249-426-11	CARBON	5.6K 5% 1/4W				

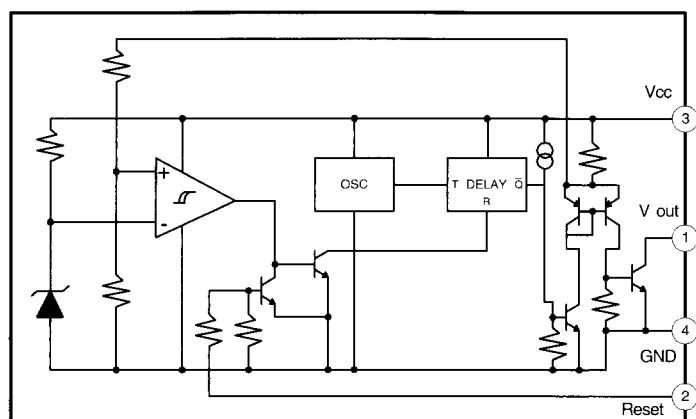
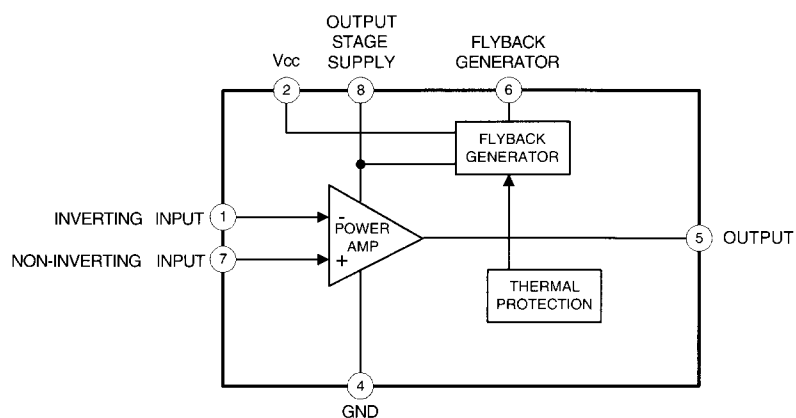
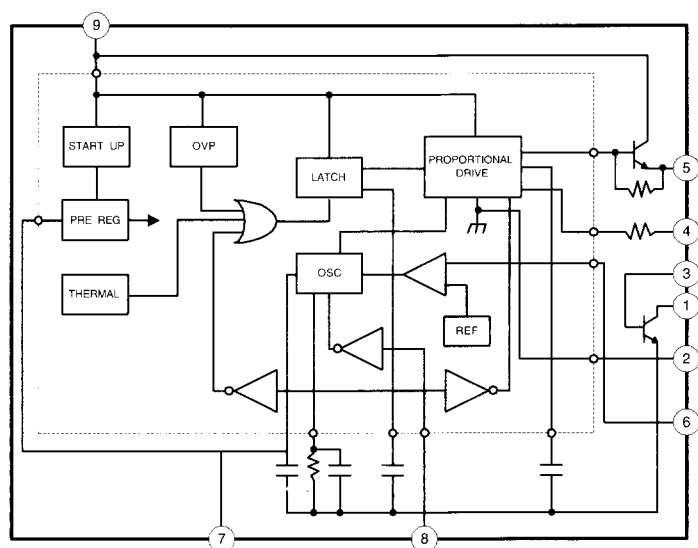
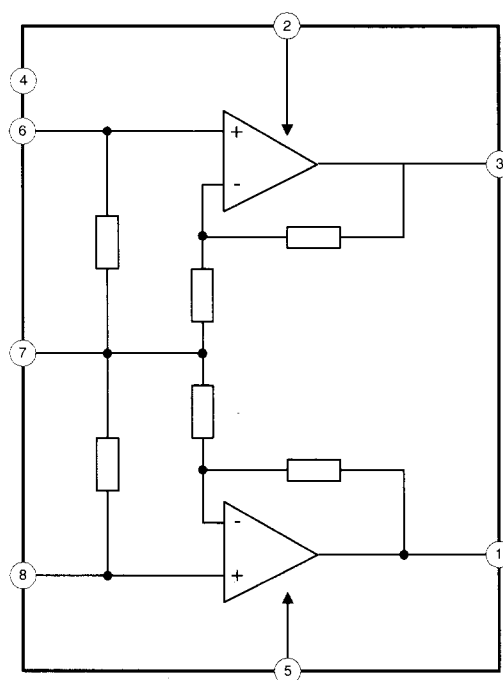
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A BOARD IC201 CXA2040Q

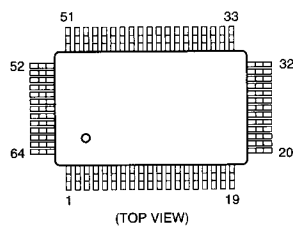
A BOARD IC202 MSP3410/MSP3400



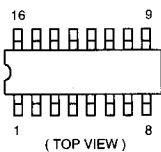
A BOARD IC4 PST593C**D BOARD IC500 STV9379****D BOARD IC600 STR-S6708****D BOARD IC1200 TDA7264**

5-4. SEMICONDUCTORS

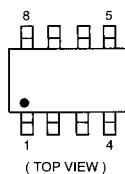
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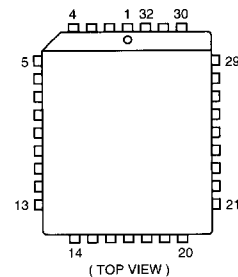
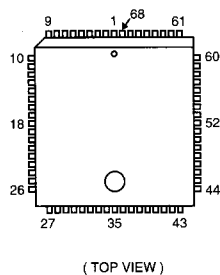
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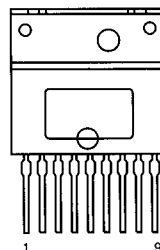
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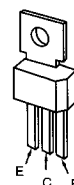
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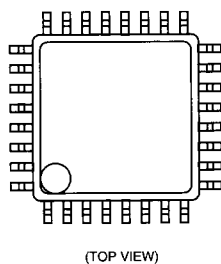
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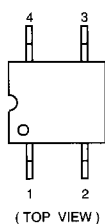
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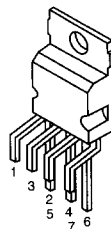
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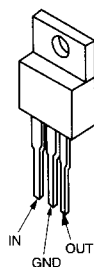
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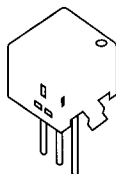
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2SA1091-O
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2SC2808STP-R

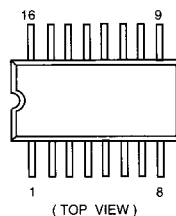
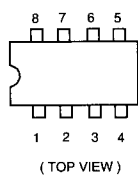
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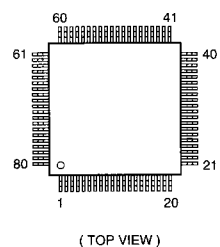
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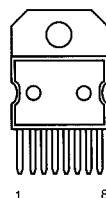
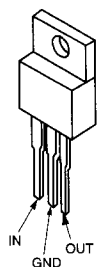
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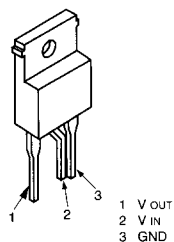
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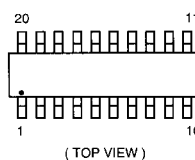
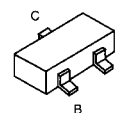
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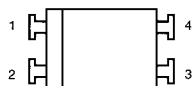
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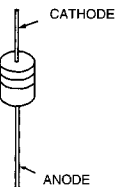
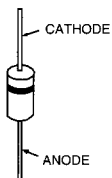
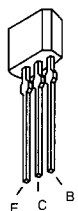
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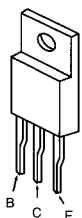
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EL1Z RGP15GPKG23
EM1-V1 RU3YX
EU-1-V1 RU4AM-T3
EU2-V1 RU4DS
FML-G12S

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MTZJ-3.9B RD5.1ESB2
MTZJ-5.1B RD5.6ESB2
MTZJ-5.6B RD6.2ESB2
MTZJ-6.2B RD6.8ESB2
MTZJ-6.8B RD7.5ESB2
MTZJ-7.5C 1SS133T-77
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MTZJ-T-77-9.1A

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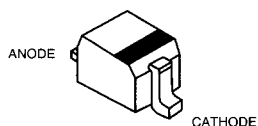
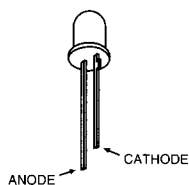


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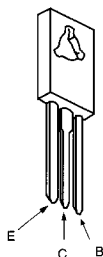


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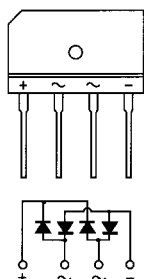
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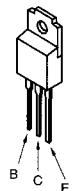
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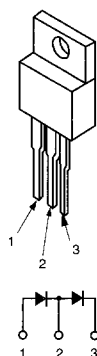
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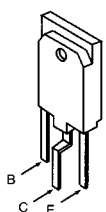
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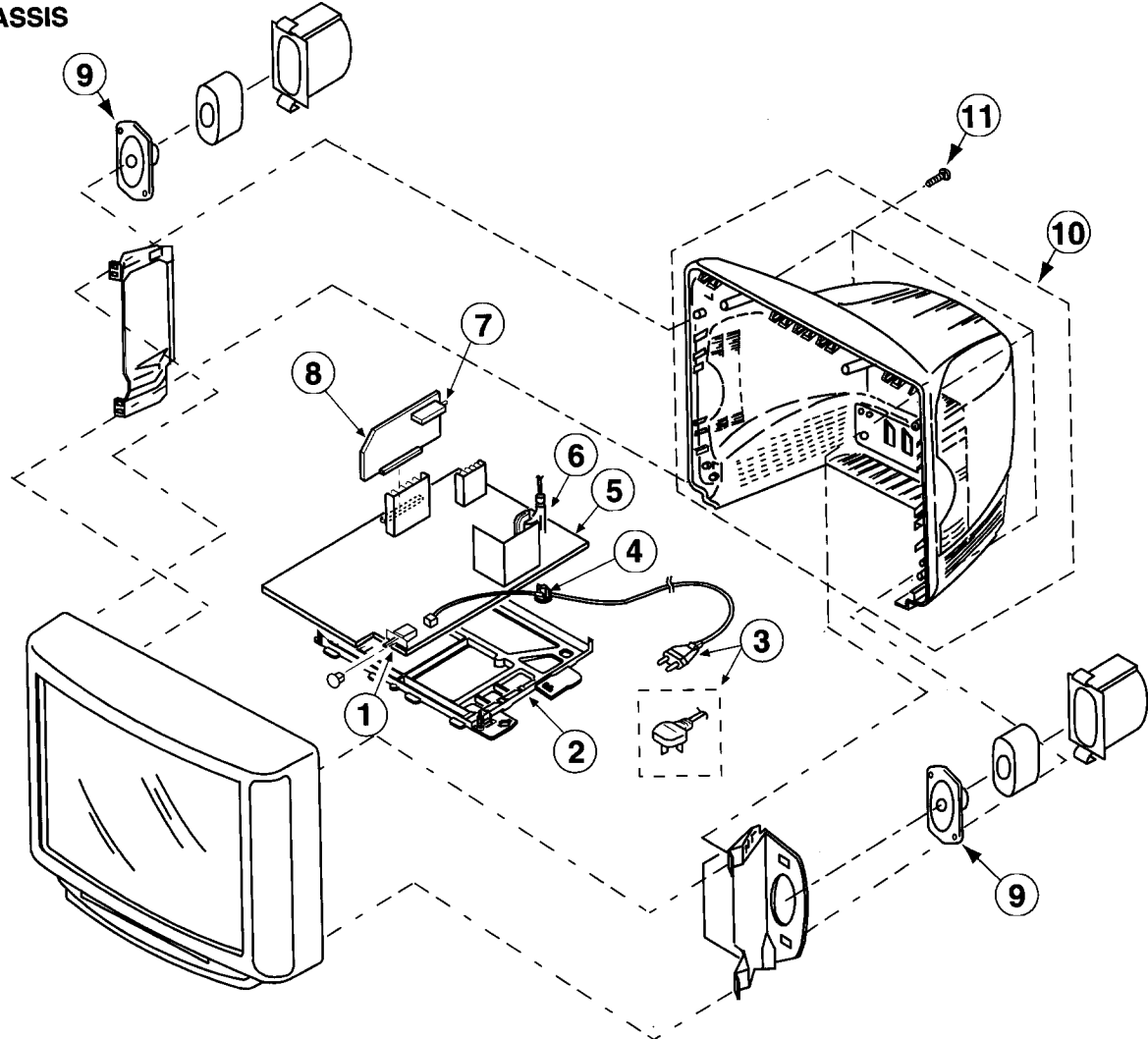
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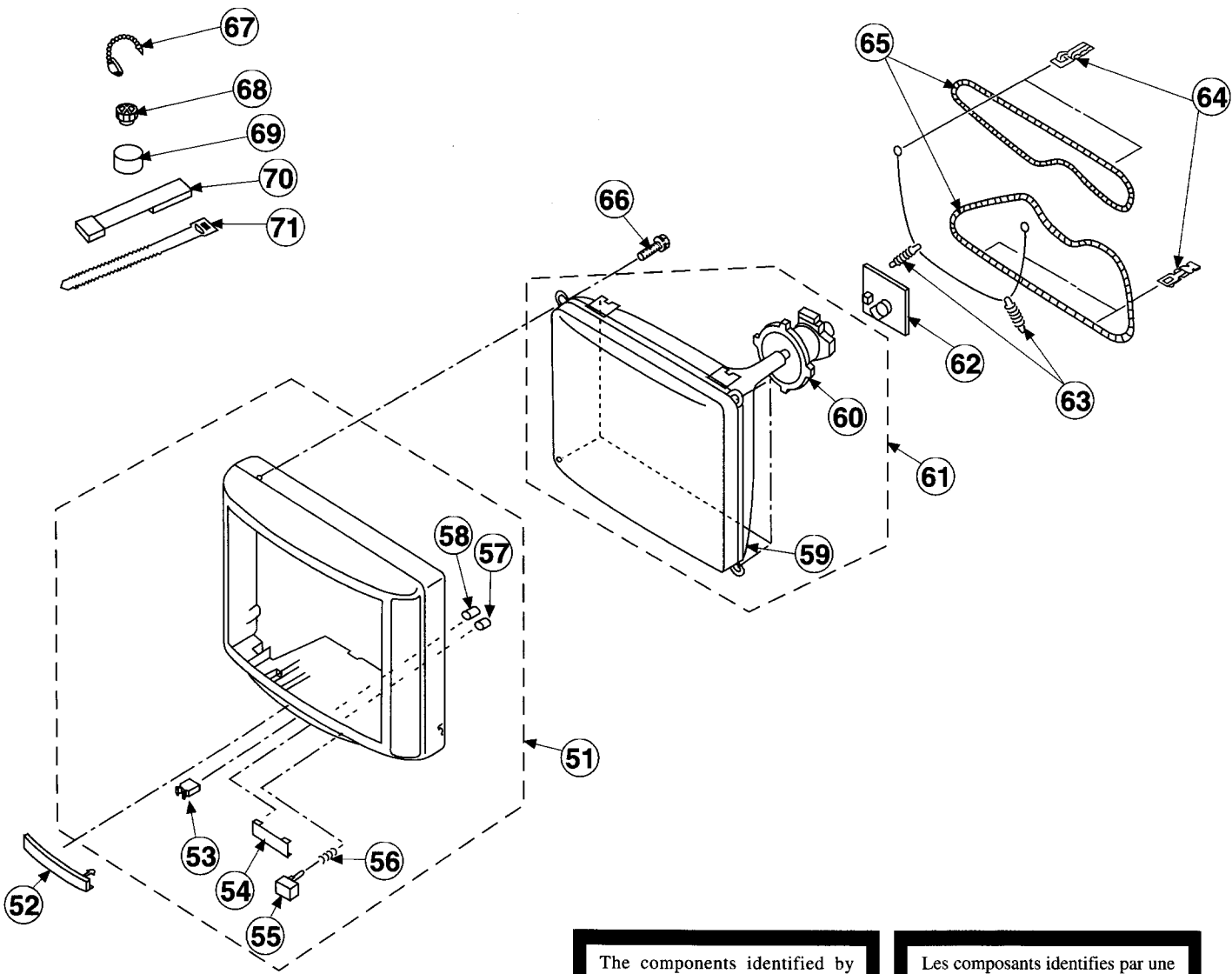
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



6-1. CHASSIS



6-2. PICTURE TUBE



The components identified by shading and marked  are critical for safety. Replace only with the part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SONY SERVICE MANUAL

BE-3D CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-25X1A	RM-839	Italian	SCC-K05G-A	KV-25X1K	RM-839	OIRT	SCC-K08N-A
KV-25X1B	RM-839	French	SCC-K01G-A	KV-25X1L	RM-839	Irish	SCC-J21A-A
KV-25X1D	RM-839	AEP	SCC-K07G-A	KV-25X1R	RM-839	OIRT	SCC-K08P-A
KV-25X1E	RM-839	Spanish	SCC-K06G-A	KV-25X1U	RM-839	UK	SCC-K04E-A

CORRECTION

SUBJECT : CHANGE OF PART NUMBER

File this supplement with the service manual

 : Corrected portion

REFER PAGE 74

REFER PAGE 74

INCORRECT

CORRECT

A-1652-037-A IF BOARD, COMPLETE (KV-25X1A/25X1D/
***** 25X1E/25X1K/
25X1L/25X1R)
A-1652-038-A IF BOARD, COMPLETE (KV-25X1U)

A-1652-036-A IF BOARD, COMPLETE (KV-25X1B)

1-693-338-11 TUNER/VIF (FR) (KV-25X1A/25X1D
25X1E/25X1K
25X1L/25X1R)
1-693-339-11 TUNER/VIF (FR) (KV-25X1U)
1-693-340-11 TUNER/VIF (FR) (KV-25X1B)



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Sony Corporation
Consumer A & V Products Company
TV & Display Products Div.

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